SUPEER™ mPE (METALLOCENE POLYETHYLENE)

PROCESS:Blown Film

GRADE	8112(L)	8115(L)
MI,g/10min (190°C, 2.16kg)	1.1	1.1
DENSITY (g/cm^3)	0.912	0.915
TYPICAL APPLICATIONS	Lamination film, freezer bag, liquid pouch, heavy duty bag, industrial liner, agriculture film, stretch hood, surface protective film, silage film	
CHARACTERISTICS	• C8 comonomer, bimodal • Excellent mechanical properties (dart impact, tear and puncture) and optical properties • Excellent sealability and processability • Superior organoleptic (less odor/smell, low volatile) Grade name with suffix L contains slip & antiblock agents	

PROCESS:Cast Film

GRADE	8315
MI,g/10min (190°C, 2.16kg)	3.0
DENSITY (g/cm^3)	0.915
TYPICAL APPLICATIONS	Stretch wrap film, silage film
CHARACTERISTICS	• C8 comonomer,bimodal • Excellent processability and organoleptic (less odor/smell, low volatile) • Excellent mechanical and optical properties

PROCESS:Pipe

GRADE	P8200RT
MI,g/10min (190°C, 2.16kg)	0.5
DENSITY (g/cm^3)	0.941
TYPICAL APPLICATIONS	Designed to be PE-RT type II. Underfloor heating and multilayer pipes for heating and plumbing
CHARACTERISTICS	• C8 comonomer, bimodal • Excellent long term hydrostatic strength, with outstanding stress crack, resistance and superior processability

COHERE™ POP (POLYOLEFIN PLASTOMER)

PROCESS:Blown Film

GRADE	8170D	8185
MI,g/10min (190°C, 2.16kg)	1.0	1.0
DENSITY (g/cm³)	0.868	0.885
TYPICAL APPLICATIONS	Sealing layer of advanced flexible packaging (meat, cheese, dry foods – cookies, chips, cereal, liquid, stand-up pouch and etc) Cling layer in stretch wrap film; Adhesive layer in surface protect film	
CHARACTERISTICS	• C8 comonomer • Exceptional heat sealability (low seal initiation temperature, excellent hot tack strength) • Excellent optics and toughness • Superb organoleptic properties • Easy processing Grade name with suffix L contains slip & antiblock agents Grade name with suffix D contains anticaking agent	

PROCESS:Blown Film

GRADE	S100(L)	8102(L)
MI,g/10min (190°C, 2.16kg)	1.0	1.0
DENSITY (g/cm³)	0.900	0.902
TYPICAL APPLICATIONS	Sealing layer of advanced flexible packaging (meat, cheese, dry foods – cookies, chips, cereal, liquid, stand-up pouch and etc) Cling layer in stretch wrap film; Adhesive layer in surface protect film	
CHARACTERISTICS	• C8 comonomer • Exceptional heat sealability (low seal initiation temperature, excellent hot tack strength) • Excellent optics and toughness • Superb organoleptic properties • Easy processing Grade name with suffix L contains slip & antiblock agents Grade name with suffix D contains anticaking agent	

PROCESS:Cast Film

GRADE	8570D	8380
MI,g/10min (190°C, 2.16kg)	5.0	3.0
DENSITY (g/cm³)	0.868	0.880
TYPICAL APPLICATIONS	Sealing layer of advanced flexible packaging (meat, cheese, dry foods – cookies, chips, cereal, liquid, stand-up pouch and etc) Cling layer in stretch wrap film; Adhesive layer in surface protect film	
CHARACTERISTICS	• C8 comonomer • Exceptional heat sealability (low seal initiation temperature, excellent hot tack strength) • Excellent optics and toughness • Superb organoleptic properties • Easy processing Grade name with suffix L contains slip & antiblock agents Grade name with suffix D contains anticaking agent	

PROCESS:Cast Film

GRADE	S400	8402
MI,g/10min (190°C, 2.16kg)	3.5	3.5
DENSITY (g/cm³)	0.900	0.902
TYPICAL APPLICATIONS	Sealing layer of advanced flexible packaging (meat, cheese, dry foods – cookies, chips, cereal, liquid, stand-up pouch and etc) Cling layer in stretch wrap film; Adhesive layer in surface protect film	
CHARACTERISTICS	• C8 comonomer • Exceptional heat sealability (low seal initiation temperature, excellent hot tack strength) • Excellent optics and toughness • Superb organoleptic properties • Easy processing Grade name with suffix L contains slip & antiblock agents Grade name with suffix D contains anticaking agent	

FORTIFY™ POE (POLYOLEFIN ELASTOMER)

PROCESS:Compounding Foaming Extrusion Casting

GRADE	C0570(D)	C1055D
MI,g/10min (190°C, 2.16kg)	0.5	1.0
DENSITY (g/cm³)	0.868	0.857
TYPICAL APPLICATIONS	• PP modification • Footwear • Wire & Cable • Grafting for polyamide modfication • Photovaltaic Encapsulation	
CHARACTERISTICS	• C8 comonomer • Exceptional toghness, flexibility and elasticity • Excellent impact strength and low temperature ductility • Outstanding organoleptic, low volatile and migration • Excellent compability with other polyolefin materials • Easy processing • Remarkable electrical properties Grade name with suffix D contains anticaking agent	

PROCESS:Compounding Foaming Extrusion Casting

GRADE	C1070(D)	C1085
MI,g/10min (190°C, 2.16kg)	1.0	1.0
DENSITY (g/cm³)	0.868	0.885
TYPICAL APPLICATIONS	• PP modification • Footwear • Wire & Cable • Grafting for polyamide modfication • Photovaltaic Encapsulation	
CHARACTERISTICS	• C8 comonomer • Exceptional toghness, flexibility and elasticity • Excellent impact strength and low temperature ductility • Outstanding organoleptic, low volatile and migration • Excellent compability with other polyolefin materials • Easy processing • Remarkable electrical properties Grade name with suffix D contains anticaking agent	

PROCESS:Compounding Foaming Extrusion Casting

GRADE	C3080	C5070(D)
MI,g/10min (190°C, 2.16kg)	3.0	5.0
DENSITY (g/cm³)	0.880	0.868
TYPICAL APPLICATIONS	• PP modification • Footwear • Wire & Cable • Grafting for polyamide modfication • Photovaltaic Encapsulation	
CHARACTERISTICS	• C8 comonomer • Exceptional toghness, flexibility and elasticity • Excellent impact strength and low temperature ductility • Outstanding organoleptic, low volatile and migration • Excellent compability with other polyolefin materials • Easy processing • Remarkable electrical properties Grade name with suffix D contains anticaking agent	

PROCESS:Compounding Foaming Extrusion Casting

GRADE	C5075DP	C13060(D)
MI,g/10min (190°C, 2.16kg)	5.0	13
DENSITY (g/cm³)	0.873	0.863
TYPICAL APPLICATIONS	• PP modification • Footwear • Wire & Cable • Grafting for polyamide modfication • Photovaltaic Encapsulation	
CHARACTERISTICS	• C8 comonomer • Exceptional toghness, flexibility and elasticity • Excellent impact strength and low temperature ductility • Outstanding organoleptic, low volatile and migration • Excellent compability with other polyolefin materials • Easy processing • Remarkable electrical properties Grade name with suffix D contains anticaking agent	

PROCESS:Compounding Foaming Extrusion Casting

GRADE	C13075DP	C30070D
MI,g/10min (190°C, 2.16kg)	13	30
DENSITY (g/cm³)	0.873	0.868
TYPICAL APPLICATIONS	• PP modification • Footwear • Wire & Cable • Grafting for polyamide modfication • Photovaltaic Encapsulation	
CHARACTERISTICS	• C8 comonomer • Exceptional toghness, flexibility and elasticity • Excellent impact strength and low temperature ductility • Outstanding organoleptic, low volatile and migration • Excellent compability with other polyolefin materials • Easy processing • Remarkable electrical properties Grade name with suffix D contains anticaking agent	

LLDPE (LINEAR LOW DENSITY POLYETHYLENE)

PROCESS:Blown Film

GRADE	518NJ	920NT
MI g/10min (190℃, 2.16kg)	0.5	0.85
DENSITY (g/cm³)	0.918	0.920
TYPICAL APPLICATIONS	Heavy duty shipping sack, agriculture film, liner bag	Agriculture film, heavy duty packaging, shrink film
CHARACTERISTICS	Excellent mechanical properties (especially dart impact strength and puncture resistance)	Very good mechanical strength and processability

PROCESS:Blown Film

GRADE	118WJ	118ZJ
MI g/10min (190℃, 2.16kg)	1.0	1.0
DENSITY (g/cm³)	0.918	0.918
TYPICAL APPLICATIONS	Lamination film, food packaging, heavy duty packaging	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film
CHARACTERISTICS	Very good mechanical strength and processability, High slip & antiblock	Very good mechanical strength and processability, Medium slip & antiblock

PROCESS:Blown Film

GRADE	118NJ	118WSJ
MI g/10min (190℃, 2.16kg)	1.0	1.0
DENSITY (g/cm³)	0.918	0.918
TYPICAL APPLICATIONS	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Lamination film, food/nonfood packaging, shopping bag
CHARACTERISTICS	Very good mechanical strength and processability, No slip & antiblock	Good clarity, contains slip and antiblock

PROCESS:Blown Film

GRADE	119NJ	119ZJ
MI g/10min (190℃, 2.16kg)	1.0	1.0
DENSITY (g/cm³)	0.918	0.918
TYPICAL APPLICATIONS	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film	Lamination film, food packaging, heavy duty packaging
CHARACTERISTICS	Very good mechanical strength and processability, No slip & antiblock	Very good mechanical strength and processability, Medium slip & antiblock

PROCESS:Blown Film

GRADE	120WJ	122NJ
MI g/10min (190℃, 2.16kg)	1.0	1.1
DENSITY (g/cm³)	0.918	0.921
TYPICAL APPLICATIONS	High clarity film for food/nonfood packaging	Agriculture film, heavy duty packaging, lamination film, food packaging, shrink film
CHARACTERISTICS	Excellent clarity, contains slip and antiblock	Very good mechanical strength and processability, No slip & antiblock

PROCESS:Blown Film

GRADE	122WJ	218WJ
MI g/10min (190℃, 2.16kg)	1.1	2.0
DENSITY (g/cm³)	0.921	0.918
TYPICAL APPLICATIONS	Lamination film, food packaging, heavy duty packaging	Very good mechanical strength and processability, High slip & antiblock
CHARACTERISTICS	Lamination film, food/nonfood packaging, shopping bag	Good mechanical strength, processability and clarity, contains slip & antiblock

PROCESS:Blown Film

GRADE	218NF	218NJ
MI g/10min (190℃, 2.16kg)	2.0	2.0
DENSITY (g/cm³)	0.918	0.918
TYPICAL APPLICATIONS	Lamination film, food/nonfood packaging, shopping bag	Lamination film, food/nonfood packaging, shopping bag
CHARACTERISTICS	Very good processability, No slip & antiblock	No slip and antiblock

PROCESS:Blown Film

GRADE	222WF	222WT
MI g/10min (190℃, 2.16kg)	2.0	2.0
DENSITY (g/cm³)	0.918	0.922
TYPICAL APPLICATIONS	Agriculture film, Lamination film, food/nonfood packaging, shopping bag	
CHARACTERISTICS	Very good processability, High slip & antiblock	

PROCESS:Blown Film

GRADE	218NT	219NJ
MI g/10min (190℃, 2.16kg)	2.0	2.0
DENSITY (g/cm³)	0.920	0.918
TYPICAL APPLICATIONS	Lamination film, food/nonfood packaging, shopping bag	Lamination film, food/nonfood packaging, shopping bag
CHARACTERISTICS	No slip and antiblock	Very good processability, No slip & antiblock

PROCESS:Blown Film

GRADE	219ZJ	222WJ
MI g/10min (190℃, 2.16kg)	2.0	2.0
DENSITY (g/cm³)	0.918	0.921
TYPICAL APPLICATIONS	Agriculture film, Lamination film, food/nonfood packaging, shopping bag	Agriculture film, Lamination film, food/nonfood packaging, shopping bag
CHARACTERISTICS	Very good processability, Medium slip & antiblock	Very good processability, High slip & antiblock

LLDPE (LINEAR LOW DENSITY POLYETHYLENE)

PROCESS:Blown Film

GRADE	222NJ
MI,g/10min (190°C, 2.16kg)	2.2
DENSITY (g/cm³)	0.921
TYPICAL APPLICATIONS	Lamination film, food/nonfood packaging, shopping bag
CHARACTERISTICS	Very good processability, No slip & antiblock

PROCESS:Cast Film

GRADE	218BJ	318BJ
MI,g/10min (190°C, 2.16kg)	2.0	2.8
DENSITY (g/cm³)	0.918	0.918
TYPICAL APPLICATIONS	Cast stretch film for both manual and machine wrap, food cling film	
CHARACTERISTICS	High heat stabilization, excellent processability, very good mechanical, optical properties and stretchability	

PROCESS:Cast Film

GRADE	C2820T
MI,g/10min (190°C, 2.16kg)	2.8
DENSITY (g/cm³)	0.920
TYPICAL APPLICATIONS	Lamination film, tissue film food/non-food packaging
CHARACTERISTICS	High heat stabilization, excellent processability, very good mechanical, optical properties and stretchability

PROCESS:Cast Film

GRADE	319BJ	320BJ
MI,g/10min (190°C, 2.16kg)	3.0	3.0
DENSITY (g/cm³)	0.918	0.922
TYPICAL APPLICATIONS	Cast stretch film for both manual and machine wrap, food cling film	
CHARACTERISTICS	High heat stabilization, excellent processability, very good mechanical, optical properties and stretchability	

PROCESS:Wire & Cable

GRADE	318CNJ	320NT
MI,g/10min (190°C, 2.16kg)	2.8	2.8
DENSITY (g/cm³)	0.918	0.920
TYPICAL APPLICATIONS	1-step or 2-step silane crosslinking low voltage power cable insulation	
CHARACTERISTICS	Excellent cable extrusion processability and crosslinking properties	

PROCESS:Roto-molding

GRADE	R50035	R50035E
MI,g/10min (190°C, 2.16kg)	5.0	5.0
DENSITY (g/cm³)	0.935	0.935
TYPICAL APPLICATIONS	Water tank, chemical tank, toy, road barrier, Playground, furniture. Cap and closure	Water tank, chemical tank, toy, road barrier, Playground, furniture
CHARACTERISTICS	Excellent grindability Excellent stiffness and good balance between impact strength and ESCR	Excellent grindability Excellent stiffness and good balance between impact strength and ESCR High UV stabilization

PROCESS:Injection Molding Masterbatch

GRADE	M200024	M200024T
MI,g/10min (190°C, 2.16kg)	20	20
DENSITY (g/cm³)	0.924	0.924
TYPICAL APPLICATIONS	Cap and closure (oil bottle, theft-proofing, etc.), houseware, masterbatch, metal coating, carpet backing	Masterbatch, cap and closure (oil bottle, theft-proofing, etc.), houseware
CHARACTERISTICS	High flow ability with high gloss, low temperature toughness and good stress crack resistance	

PROCESS:Injection Molding Masterbatch

GRADE	MG200024	MS00026
MI,g/10min (190°C, 2.16kg)	20	50
DENSITY (g/cm³)	0.924	0.926
TYPICAL APPLICATIONS	Masterbatch, metal coating, carpet backing	Cap and closure, houseware, masterbatch
CHARACTERISTICS	Granules, easy dispersing and mixing with pigments	Excellent flow ability, high gloss and toughness, good stress crack resistance

PROCESS:Injection Molding Masterbatch

GRADE	MG500026
MI,g/10min (190°C, 2.16kg)	50
DENSITY (g/cm³)	0.926
TYPICAL APPLICATIONS	Masterbatch,metal coating, carpet backing
CHARACTERISTICS	Granules, easy dispersing and mixing with pigments

PROCESS:Pipe

GRADE	128CNJ	P438J
MI,g/10min (190°C, 2.16kg)	1.0	0.4
DENSITY (g/cm³)	0.928	0.938
TYPICAL APPLICATIONS	Telecommunication cables, electrical conduits and drip & irrigation pipes	Cylindrical and tape drip irrigation pipes
CHARACTERISTICS	Combining stiffness, toughness and high melt strength with an excellent processability due to its broad molecular weight distribution	Excellent processability with a high level of consistency; Exceptional mechanical properties and stress crack resistance

LOW DENSITY POLYETHYLENE (LDPE)

PROCESS:Blown Film

GRADE	HP0321NN	HP0323NN
MI,g/10min (190°C, 2.16kg)	0.25	0.30
DENSITY (g/cm³)	0.921	0.923
TYPICAL APPLICATIONS	Collation shrink film, greenhouse film, heavy duty bag	
CHARACTERISTICS	Excellent toughness and puncture resistance	

PROCESS:Blown Film

GRADE	HP0322NN	HP0722NN
MI,g/10min (190°C, 2.16kg)	0.33	0.75
DENSITY (g/cm³)	0.922	0.922
TYPICAL APPLICATIONS	Collation shrink film, greenhouse film, heavy duty bag	Medium-duty bag, collation shrink film, lamination film, shopping bag, frozen food bag, bread bag
CHARACTERISTICS	Excellent toughness and puncture resistance	Very good toughness and optical Easy processing HP0823JN / HP0723JN contains slip and antiblock

PROCESS:Blown Film

GRADE	HP0724NN	HP0723JN
MI,g/10min (190°C, 2.16kg)	0.75	0.75
DENSITY (g/cm³)	0.923	0.923
TYPICAL APPLICATIONS	Medium-duty bag, collation shrink film, lamination film, shopping bag, frozen food bag, bread bag	
CHARACTERISTICS	Very good toughness and optical Easy processing HP0823JN / HP0723JN contains slip and antiblock	

PROCESS:Blown Film

GRADE	HP0823NN	HP0823JN
MI,g/10min (190°C, 2.16kg)	0.80	0.80
DENSITY (g/cm³)	0.923	0.923
TYPICAL APPLICATIONS	Medium-duty bag, collation shrink film, lamination film, shopping bag, frozen food bag, bread bag	
CHARACTERISTICS	Very good toughness and optical Easy processing HP0823JN / HP0723JN contains slip and antiblock	

PROCESS:Blown Film

GRADE	HP2022JN	HP2022NN
MI,g/10min (190°C, 2.16kg)	2.0	2.0
DENSITY (g/cm³)	0.922	0.922
TYPICAL APPLICATIONS	Thin collation shrink film, lamination film, general purpose film, textile packaging and food bag	
CHARACTERISTICS	Very good processability Optical properties HP2022JN / HP2023JN / HP2025JN contains Slip and antiblock	

PROCESS:Blown Film

GRADE	HP2023JN	HP2023NN
MI,g/10min (190°C, 2.16kg)	2.0	2.0
DENSITY (g/cm³)	0.923	0.923
TYPICAL APPLICATIONS	Thin collation shrink film, lamination film, general purpose film, textile packaging and food bag	
CHARACTERISTICS	Very good processability Optical properties HP2022JN / HP2023JN / HP2025JN contains Slip and antiblock	

PROCESS:Blown Film

GRADE	HP2025JN	HP2025NN
MI,g/10min (190°C, 2.16kg)	2.0	2.0
DENSITY (g/cm³)	0.923	0.923
TYPICAL APPLICATIONS	Thin collation shrink film, lamination film, general purpose film, textile packaging and food bag	
CHARACTERISTICS	Very good processability Optical properties HP2022JN / HP2023JN / HP2025JN contains Slip and antiblock	

PROCESS:Blown Film

GRADE	HP2027LN	HP2027NN
MI,g/10min (190°C, 2.16kg)	2.0	2.0
DENSITY (g/cm³)	0.927	0.927
TYPICAL APPLICATIONS	Medium / light collation shrink film, lamination film, pouch, FFS (fill, form and seal)	
CHARACTERISTICS	Superior film stiffness and down-gauging potential Excellent optical properties Easy processing HP2027LN contains slip & antiblock	

PROCESS:Blown Film

GRADE	HP4025ZN	HP4023WN
MI,g/10min (190°C, 2.16kg)	3.5	4.0
DENSITY (g/cm³)	0.925	0.923
TYPICAL APPLICATIONS	High clarity laundry bag, textile wrapping film, zip-lock bag	
CHARACTERISTICS	Excellent processability Outstanding optical property Good mechanical property HP4023WN / HP4024WN / HP4025ZN contains slip and antiblock	

PROCESS:Blown Film

GRADE	HP4024WN	HP4024N
MI,g/10min (190°C, 2.16kg)	4.0	4.0
DENSITY (g/cm³)	0.923	0.923
TYPICAL APPLICATIONS	High clarity laundry bag, textile wrapping film, zip-lock bag	
CHARACTERISTICS	Excellent processability Outstanding optical property Good mechanical property HP4023WN / HP4024WN / HP4025ZN contains slip and antiblock	

PROCESS:Blown Film

GRADE	HP4027JN	HP4027NN
MI,g/10min (190°C, 2.16kg)	4.0	4.0
DENSITY (g/cm³)	0.927	0.927
TYPICAL APPLICATIONS	Medium / light collation shrink film, lamination film, Zipper bag, pouch	
CHARACTERISTICS	Superior film stiffness and down-gauging potential Outstanding optical properties Easy processing HP4027JN contains slip & antiblock	

LOW DENSITY POLYETHYLENE (LDPE)

PROCESS:Extrution Coating

GRADE	7019EC
M_Ig/10min (190°C, 2.16kg)	7.0
DENSITY (g/cm³)	0.919
TYPICAL APPLICATIONS	Paper coating, food lamination film
CHARACTERISTICS	Excellent processability, Auto-clave LDPE

PROCESS:Injection/masterbatch

GRADE	HP7022	HP7023
M_Ig/10min (190°C, 2.16kg)	7.0	7.0
DENSITY (g/cm³)	0.922	0.923
TYPICAL APPLICATIONS	Cap & closure, lid, housewares, master batch compounding	
CHARACTERISTICS	Good mechanical and impact High gloss Easy processing	

PROCESS:Injection/masterbatch

GRADE	HP20023
M_Ig/10min (190°C, 2.16kg)	20
DENSITY (g/cm³)	0.923
TYPICAL APPLICATIONS	Color master batch, compounding, injection
CHARACTERISTICS	High flow ability, high loading and easy mixing with filler and pigments

PROCESS:Foaming

GRADE	1905U0	2202U0
M_Ig/10min (190°C, 2.16kg)	5.0	1.9
DENSITY (g/cm³)	0.919	0.922
TYPICAL APPLICATIONS	Packaging, Building & Construction	
CHARACTERISTICS	Excellent resin consistency Good foam production stability Very broad MWD Ultra Melt Strength	

PROCESS:Foaming

GRADE	2004CX3	2102X0
M_Ig/10min (190°C, 2.16kg)	4.6	1.9
DENSITY (g/cm³)	0.920	0.921
TYPICAL APPLICATIONS	Automotive, Sports and Leisure, Packaging Process: Extrusion with crosslinking	Automotive, Sports and Leisure, Packaging, Building & Construction Process: Batch; Extrusion with and without crosslinking
CHARACTERISTICS	Excellent resin consistency Good foam production stability High reactivity in crosslinking Contains Anti Block & Slip agents	Excellent resin consistency Good foam production stability Broad MWD High reactivity in crosslinking

PROCESS:Foaming

GRADE	2102X3	2402CX0
M_Ig/10min (190°C, 2.16kg)	2.5	2.0
DENSITY (g/cm³)	0.921	0.924
TYPICAL APPLICATIONS	Automotive, Sports and Leisure, Packaging, Building & Construction Process: Extrusion	Automotive, Sports and Leisure, Packaging Process: Batch; Extrusion with crosslinking
CHARACTERISTICS	Excellent resin consistency Good foam production stability Broad MWD Contains Anti Block & Slip agents	Excellent resin consistency Good foam production stability High reactivity in crosslinking

PROCESS:Foaming

GRADE	2502X0
M_Ig/10min (190°C, 2.16kg)	2.0
DENSITY (g/cm³)	0.925
TYPICAL APPLICATIONS	Automotive, Sports and Leisure, Packaging, Building & Construction Process: Extrusion
CHARACTERISTICS	Excellent resin consistency Good foam production stability Broad MWD High resin density

PROCESS:Foaming

GRADE	2601X1	2602X1
M_Ig/10min (190°C, 2.16kg)	0.65	1.5
DENSITY (g/cm³)	0.926	0.926
TYPICAL APPLICATIONS	Packaging, Building & Construction Process: Extrusion	
CHARACTERISTICS	Excellent resin consistency Good foam production stability Broad MWD High resin density Contains Anti Block & Slip agents	

PROCESS:Foaming

GRADE	HP2024JDF	HP2024NDF
M_Ig/10min (190°C, 2.16kg)	2.0	2.0
DENSITY (g/cm³)	0.924	0.924
TYPICAL APPLICATIONS	Automotive, Sports and Leisure, Packaging, Building & Construction Process: Extrusion	Automotive, Sports and Leisure, Packaging, Building & Construction Process: Batch; Extrusion with and without crosslinking
CHARACTERISTICS	Excellent resin consistency Good foam production stability Contains Anti Block & Slip agents	Excellent resin consistency Good foam production stability

PROCESS:Foaming

GRADE	HP0824NDF	HP2022NDF
M_Ig/10min (190°C, 2.16kg)	0.8	2.0
DENSITY (g/cm³)	0.924	0.922
TYPICAL APPLICATIONS	Automotive, Sports and Leisure, Packaging, Building & Construction Process: Batch; Extrusion with and without crosslinking	Automotive, Sports and Leisure, Packaging, Building & Construction Process: Batch; Extrusion with and without crosslinking
CHARACTERISTICS	Excellent resin consistency Good foam production stability	Excellent resin consistency Good foam production stability High reactivity

HDPE (HIGH DENSITY POLYETHYLENE) UNIMODAL

PROCESS:Blown Film

GRADE	FJ00952	FJ01552
MI,g/10min (190°C, 2.16kg)	0.05 (90_{HLMI})	0.15 (16_{HLMI})
DENSITY (g/cm³)	0.952	0.952
TYPICAL APPLICATIONS	Bags-on-roll, T-shirt bag, shopping bag	Millinery and notion bags, deep freeze bags
CHARACTERISTICS	Excellent processability and mechanical strength, TNPP free grade	Excellent processability and drawdown properties,TNPP free grade

PROCESS:Blown Film

GRADE	F04660
MI,g/10min (190°C, 2.16kg)	0.7 (46_{HLMI})
DENSITY (g/cm³)	0.961
TYPICAL APPLICATIONS	Core-layer in co-extruded film
CHARACTERISTICS	High stiffness, low gel, excellent water vapor barrier property

PROCESS:Blow Molding

GRADE	BM1052J	B5429
MI,g/10min (190°C, 2.16kg)	0.05 (10_{HLMI})	0.3 (29_{HLMI})
DENSITY (g/cm³)	0.952	0.954
TYPICAL APPLICATIONS	Shipping container, industrial container, jerry cans	Container for household and industrial chemicals
CHARACTERISTICS	Excellent ESCR, processability and mechanical strength, TNPP free grade	Very good processability, ESCR and mechanical properties

PROCESS:Blow Molding

GRADE	BM6246LS	B4660AB
MI,g/10min (190°C, 2.16kg)	0.7 (46_{HLMI})	0.7 (46_{HLMI})
DENSITY (g/cm³)	0.961	0.961
TYPICAL APPLICATIONS	Bottles for milk, fruit juice and dairy products	Bottles for milk, fruit juice,dairy products and water"
CHARACTERISTICS	Homopolymer with good organoleptic properties, toughness-rigidity balance and good processability that offers opportunity for weight reduction	imparting high rigidity, toughness, good processability and lower odour

PROCESS:Injection Molding

GRADE	CC453	CC860
MI,g/10min (190°C, 2.16kg)	4.0	7.0
DENSITY (g/cm³)	0.953	0.957
TYPICAL APPLICATIONS	Water and beverage bottle caps	
CHARACTERISTICS	Superior organoleptic properties, very good processability	

PROCESS:Injection Molding

GRADE	CC861	M40053S
MI,g/10min (190°C, 2.16kg)	7.0	4.0
DENSITY (g/cm³)	0.954	0.953
TYPICAL APPLICATIONS	Water and beverage bottle caps	Cap and closure, crate, pail, pallet, logis tic box
CHARACTERISTICS	Superior organoleptic properties, very good processability	High stiffness and toughness Good ESCR properties Contains UV stabilizer

PROCESS:Injection Molding

GRADE	M40055S	M40060S
MI,g/10min (190°C, 2.16kg)	4.0	4.0
DENSITY (g/cm³)	0.955	0.960
TYPICAL APPLICATIONS	Cap and closure,crate, pail, pallet, logis tic box	
CHARACTERISTICS	High stiffness and toughness Good ESCR properties Contains UV stabilizer	Good toughness and rigidity. contains UV stabilizer

PROCESS:Injection Molding

GRADE	M75056F	M80060
MI,g/10min (190°C, 2.16kg)	7.5	8.0
DENSITY (g/cm³)	0.956	0.960
TYPICAL APPLICATIONS	Cap and closure,crate, pail, pallet, logis tic box	
CHARACTERISTICS	High toughness, low warpag	High toughness and rigidity, low warpage

PROCESS:Injection Molding

GRADE	M80063S	M80064/M80064S
MI,g/10min (190°C, 2.16kg)	8.0	8.0
DENSITY (g/cm³)	0.964	0.964
TYPICAL APPLICATIONS	Cap and closure,crate, pail, pallet, logis tic box	
CHARACTERISTICS	Good toughness and rigidity. contains UV stabilizer	High toughness and rigidity, low warpage M80064S contains UV stabilizer

PROCESS:Injection Molding

GRADE	M200050	M200054F
MI,g/10min (190°C, 2.16kg)	17	20
DENSITY (g/cm³)	0.950	0.954
TYPICAL APPLICATIONS	Houseware, cap and closure, cup, lamitube shoulder	
CHARACTERISTICS	High flow ability, high stiffness	

PROCESS:Injection Molding

GRADE	M200056	M300054
MI,g/10min (190°C, 2.16kg)	20	30
DENSITY (g/cm³)	0.956	0.954
TYPICAL APPLICATIONS	Houseware, cap and closure, cup, lamitube shoulder	
CHARACTERISTICS	High flow ability, high stiffness	

HDPE (HIGH DENSITY POLYETHYLENE) MULTIMODAL

PROCESS:Blown Film

GRADE	FI0851P	FI0851
M_w/10min	0.050(M_w) 90(M_w)	0.30(M_w) 90(M_w)
DENSITY (g/cm³)	0.951	0.952
TYPICAL APPLICATIONS	Grocery sacks, shopping bags, refuse bags, thin films for bag on roll	
CHARACTERISTICS	Excellent processability, high film strength and rigidity	

PROCESS:Blown Film

GRADE	FI0750
M_w/10min	0.220(M_w) 7.50(M_w)
DENSITY (g/cm³)	0.950
TYPICAL APPLICATIONS	Grocery sacks, shopping bags, refuse bags, thin films for bag on roll
CHARACTERISTICS	Excellent processability, high film strength and rigidity

PROCESS:Blow Molding

GRADE	B5428	B5822
M_w/10min	0.30(M_w) 28(M_w)	1.20(M_w) 20(M_w)
DENSITY (g/cm³)	0.954	0.958
TYPICAL APPLICATIONS	Containers for consumer goods, detergents, toys	
CHARACTERISTICS	Very good ESCR, stiffness and processability	

PROCESS:Blow Molding

GRADE	B1054	B5403
M_w/10min	0.45(M_w) 9.50(M_w)	2.60(M_w)
DENSITY (g/cm³)	0.954	0.954
TYPICAL APPLICATIONS	Designed for standard and lightweight jerry Vcans, food contact approval container	Tight and open head drum
CHARACTERISTICS	Very good ESCR, processability and high stiffness with good impact strength	Excellent combination of stiffness and ESCR with good impact strength

PROCESS:Blow Molding

GRADE	B5308
M_w/10min	8.00(M_w)
DENSITY (g/cm³)	0.953
TYPICAL APPLICATIONS	specifically designed for blow molding floaters for floating photovoltaic (PV) panel systems "
CHARACTERISTICS	excellent mechanical properties, very good toughness and stiffness balance, long lifetime and easy blow molding processability, high ESCR. "

PROCESS:Compression molding / Injection molding

GRADE	CC027C	CC027SL
M_w/10min	0.80(M_w)	0.80(M_w)
DENSITY (g/cm³)	0.953	0.953
TYPICAL APPLICATIONS	Carbonated soft drink cap	
CHARACTERISTICS	Excellent ESCR, processability and organoleptic propertie	Contains slip , Excellent ESCR, high stiffness, processability and organoleptic properties

PROCESS:Pipe Extrusion

GRADE	P6006	P6006N
M_w/10min	0.230(M_w) 6.20(M_w)	0.230(M_w) 6.20(M_w)
DENSITY (g/cm³)	0.959	0.949
TYPICAL APPLICATIONS	Gas, water, sewage pipes and corrugated & spiral pipes	
CHARACTERISTICS	Black, PE 100, Multimodal, pressure pipe and excellent stress crack resistance properties (ESCR)	Natural, PE 4710, Multimodal and excellent stress crack resistance properties (ESCR)

PROCESS:Pipe Extrusion

GRADE	P6006NA	P4808N
M_w/10min	0.230(M_w) 6.20(M_w)	0.230(M_w) 6.50(M_w)
DENSITY (g/cm³)	0.949	0.949
TYPICAL APPLICATIONS	Gas, water, sewage pipes and corrugated & spiral pipes	Non-pressure pipe applications such as irrigation, cable conduits, corrugated and gravity pipe segments
CHARACTERISTICS	Natural, designed to be PE4710, Multimodal and excellent stress crack resistance properties (ESCR)	Natural, Multimodal and excellent stress crack resistance properties (ESCR)

PROCESS:Pipe Extrusion

GRADE	P4808NA	P5305N
M_w/10min	0.230(M_w) 6.50(M_w)	4.50(M_w)
DENSITY (g/cm³)	0.949	0.953
TYPICAL APPLICATIONS	Non-pressure pipe applications such as irrigation, cable conduits, corrugated and gravity pipe segments	
CHARACTERISTICS	Natural, Multimodal and excellent stress crack resistance properties (ESCR)	

PROCESS:Pipe Extrusion

GRADE	P5307N	P5616N
M_w/10min	7.00(M_w)	16(M_w)
DENSITY (g/cm³)	0.953	0.956
TYPICAL APPLICATIONS	Non-pressure pipe applications such as irrigation, cable conduits, corrugated and gravity pipe segments	
CHARACTERISTICS	Natural, Multimodal and excellent stress crack resistance properties (ESCR)	

PROCESS:Pipe Extrusion

GRADE	P6006AD	P6006LS
M_w/10min	0.230(M_w) 6.40(M_w)	0.230(M_w) 6.40(M_w)
DENSITY (g/cm³)	0.959	0.960
TYPICAL APPLICATIONS	Pressure pipes for potable water, gas, sewage and other liquids	Pressure pipes for potable water, gas, sewage. Useful for large-diameter pipes and pressure pipes with low standard dimension ratio(SDR)
CHARACTERISTICS	Black, PE 112 (class MRS 11.2 MPa) specially designed for pressure pipe application. It delivers exceptional processing performance	Black, PE 112, Multimodal, delivers exceptional low sag performance. Low sagging grade, particularly for large diameter pipes

PROCESS:Pipe Extrusion

GRADE	P4200RT	P6006AO
M_w/10min	0.450(M_w) 9.50(M_w)	0.230(M_w)
DENSITY (g/cm³)	0.947	0.950
TYPICAL APPLICATIONS	Designed to be PE-RT Type II. Underfloor heating and multilayer pipes for heating and plumbing.	Gas pressure pipes
CHARACTERISTICS	Excellent stress crack resistance properties (ESCR) combined with very good long-term hydrostatic strength, high heat and extremely high extraction stability	Orange. Designed to be PE100. Multi-modal, good stress crack resistance

ETHYLENE VINYL ACETATE (EVA)

PROCESS:Foaming Wire & Cable Compounding

GRADE	EVA2518DF
MI,g/10min (190°C, 2.16kg)	2.5
DENSITY (g/cm^3)	0.935
TYPICAL APPLICATIONS	Foam (Footwear, sports and leisure), wire & cable compounding
CHARACTERISTICS	18% ethylene vinyl acetate copolymer resin Excellent processability Good mechanical property

POLYOLEFIN COMPOUND

PROCESS:Pipe

GRADE	P1600A
MI,g/10min (190°C, 2.16kg)	2.1(MI_5) 28.3(MI_{21})
DENSITY (g/cm^3)	0.892
TYPICAL APPLICATIONS	Inner layer for industrial and mining pipes
CHARACTERISTICS	Natural color High abrasion resistance, good processability and good compatibility with HDPE pipes

HOMOPOLYMER POLYPROPYLENE

PROCESS:Raffia Extrusion

GRADE	5051P	500P
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	2.2	3.0
TYPICAL APPLICATIONS	Woven bag, flexible intermediate bulk container (FIBC), rope & twines, carpet backing, geotextiles & concrete reinforcement	
CHARACTERISTICS	Consistent processability & good mechanical properties	

PROCESS:Raffia Extrusion

GRADE	5001P	T30S
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	3.0	3.4
TYPICAL APPLICATIONS	Woven bag, flexible intermediate bulk container (FIBC), rope & twines, carpet backing, geotextiles & concrete reinforcement	
CHARACTERISTICS	Consistent processability & good mechanical properties	

PROCESS:Raffia Extrusion

GRADE	5015F	5061P
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	3.4	4.0
TYPICAL APPLICATIONS	Woven bag, flexible intermediate bulk container (FIBC), rope & twines, carpet backing, geotextiles & concrete reinforcement	Low denier tapes, woven bags, carpet backing & concrete reinforcement
CHARACTERISTICS	Consistent processability & good mechanical properties	Good high line speed process ability, good mechanical properties

PROCESS:Raffia Extrusion

GRADE	5061PR	506P
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	4.0	4.8
TYPICAL APPLICATIONS	Low denier tapes, woven bags, carpet backing & concrete reinforcement	
CHARACTERISTICS	Good high line speed process ability, good mechanical properties	

PROCESS:Fiber Extrusion

GRADE	510P	518P
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	12	25
TYPICAL APPLICATIONS	Continuous fiber (CF) & SF	Bulk continuous fiber (BCF), CF & SF for carpet pile & upholstery
CHARACTERISTICS	Good processability, spin ability & gas fading resistance	

PROCESS:Fiber Extrusion

GRADE	511A, 5112A	5192A
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	25	33
TYPICAL APPLICATIONS	Spunbond nonwoven fabric for diaper, filters & hygienic products	
CHARACTERISTICS	Consistent processability, thread line stability, color consistency & gas fading resistance	

PROCESS:Fiber Extrusion

GRADE	519A	519AF
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	35	35
TYPICAL APPLICATIONS	Spunbond nonwoven fabric for diaper, filters & hygienic products	
CHARACTERISTICS	Consistent processability, thread line stability, color consistency & gas fading resistance	

PROCESS:Fiber Extrusion

GRADE	514M14
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	1400*
TYPICAL APPLICATIONS	Meltblown nonwoven fabric for diaper, filters & hygienic products
CHARACTERISTICS	Good processability & fiber uniformity, Available in pelletized form. No peroxides

PROCESS:Film Extrusion-IPP

GRADE	520L
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	10
TYPICAL APPLICATIONS	Used for inflated polypropylene (IPP) film process for producing garment & textiles bag, magazine covers, food packaging
CHARACTERISTICS	Good optical properties & processability

PROCESS:Film Extrusion-BOPP

GRADE	521P	524P
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	3.0	2.0
TYPICAL APPLICATIONS	Core layer in co-extruded BOPP (biaxially oriented polypropylene) film, plain BOPP film	
CHARACTERISTICS	Excellent optical properties, high tensile strength, metalizable	Excellent optical properties, very high tensile strength, metalizable

PROCESS:Film Extrusion-BOPP

GRADE	5241P	5212P
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	2.2	3.0
TYPICAL APPLICATIONS	Core layer in co-extruded BOPP (biaxially oriented polypropylene) film, plain BOPP film	
CHARACTERISTICS	Excellent optical properties, very high tensile strength, metalizable	

PROCESS:Film Extrusion-BOPP

GRADE	5231P	523PF
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	3.0	3.2
TYPICAL APPLICATIONS	Core layer in co-extruded BOPP (biaxially oriented polypropylene) film, plain BOPP film	
CHARACTERISTICS	High crystallinity, very high stiffness, tensile properties & metalizable	Excellent optical properties, very high tensile strength, metalizable

PROCESS:Film Extrusion-CPP

GRADE	526P
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	8.0
TYPICAL APPLICATIONS	Core layer in co-extruded CPP (cast polypropylene) film, plain CPP film
CHARACTERISTICS	High gloss & clarity, high melt strength metalizable

PROCESS:Thermoforming

GRADE	522K	528K
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	3.0	3.0
TYPICAL APPLICATIONS	Cup, trays, lids & various thin wall containers	
CHARACTERISTICS	High stiffness, very good clarity and aesthetics, very good dimensional stability	High stiffness, good clarity, good dimensional stability

PROCESS:Thermoforming

GRADE	527K
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	3.0
TYPICAL APPLICATION	Cup, trays, lids & various thin wall containers
CHARACTERISTICS	Very high stiffness, very good clarity & good dimensional stability

PROCESS:Foaming

GRADE	PPUMS 561P
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	2.5
TYPICAL APPLICATIONS	Extrusion foaming
CHARACTERISTICS	Ultra melt strength, excellent foamability, high stiffness.

* MFR is tested according to SABIC internal method

HOMOPOLYMER POLYPROPYLENE

PROCESS:Injection Molding

GRADE	570P	5702P
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	8.0	9.0
TYPICAL APPLICATIONS	Household articles	Household articles, caps & closures, containers, toys
CHARACTERISTICS	Consistent processability, good gloss & dimensional stability	

PROCESS:Injection Molding

GRADE	5704PR	5703P
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	11	12
TYPICAL APPLICATIONS	Household articles, caps & closures, containers, toys	
CHARACTERISTICS	Consistent processability, good gloss & dimensional stability	

PROCESS:Injection Molding

GRADE	574PF	575P
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	12	11
TYPICAL APPLICATIONS	Household articles, caps & closures, containers, toys	
CHARACTERISTICS	Consistent processability, good gloss & dimensional stability	

PROCESS:Injection Molding

GRADE	5705P	5705PR
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	15	15
TYPICAL APPLICATIONS	Household articles, caps & closures, containers, toys	
CHARACTERISTICS	Consistent processability, good gloss & dimensional stability	

PROCESS:Injection Molding

GRADE	5780P	5707N
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	25	25
TYPICAL APPLICATIONS	Household articles, toys & thin wall packaging	Housewares, thin wall packaging, caps & closures & garden furniture
CHARACTERISTICS	Consistent processability, good gloss & dimensional stability	Consistent processability, fast molding cycle, good gloss & clarity, high stiffness

PROCESS:Injection Molding

GRADE	579S	5760NF
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	47	60
TYPICAL APPLICATIONS	Housewares, thin wall packaging, appliances, caps & closures	Thin wall packaging, housewares, compounding
CHARACTERISTICS	Low warpage, high stiffness, outstanding flowability, good contact transparency & high gloss	Outstanding processability, high stiffness, low warpage

PROCESS:Injection Molding

GRADE	5770NF	591A
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	70	6.0
TYPICAL APPLICATIONS	Thin wall packaging, housewares, compounding	Automotive compounding applications where high rigidity and good thermal characteristics are required
CHARACTERISTICS	Outstanding processability, high stiffness, low warpage	Medium flowability, high stiffness & formulated with dedicated automotive additive package

PROCESS:Injection Molding

GRADE	595A
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	47
TYPICAL APPLICATIONS	Automotive compounding applications where high rigidity and good thermal characteristics are required
CHARACTERISTICS	High flowability, high stiffness & formulated with a dedicated automotive additive package

RANDOM COPOLYMER POLYPROPYLENE

PROCESS:Injection Molding

GRADE	QR6701K	QR6731K
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	10	25
TYPICAL APPLICATIONS	Clear housewares & packaging items, appliances, caps & closures, lids & ISBM bottles	Clear housewares items, caps & closures, food containers, ISBM bottles, lids & CD boxes
CHARACTERISTICS	Consistent processability, good stiffness, excellent clarity, lower energy consumption & less cycle time due to low processing temperatures	

PROCESS:Injection Molding

GRADE	673KF
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	25
TYPICAL APPLICATIONS	Clear housewares items, food containers, caps & closures, CD boxes
CHARACTERISTICS	Excellent clarity, Good impact resistance, Consistent processability

PROCESS:Injection Molding

GRADE	QR6711K
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	45
TYPICAL APPLICATIONS	Clear thin walled containers & boxes, housewares, caps & closures, lids
CHARACTERISTICS	Consistent processability, good stiffness, excellent clarity, low warpage, high flowability, lower energy consumption & less cycle time due to low processing temperatures, excellent organoleptic properties

PROCESS:Injection Molding

GRADE	674KF
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	50
TYPICAL APPLICATIONS	Clear thin wall packaging， housewares items, food containers, caps & closures
CHARACTERISTICS	Excellent clarity, Good impact resistance, Consistent processability

PROCESS:Injection Molding

GRADE	QR6771K
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	70
TYPICAL APPLICATIONS	Clear thin walled containers & boxes, housewares, caps & closures, lids
CHARACTERISTICS	Consistent processability, good stiffness, excellent clarity, low warpage, high flowability, lower energy consumption & less cycle time due to low processing temperatures, excellent organoleptic properties

IMPACT COPOLYMER POLYPROPYLENE

PROCESS:Pipe Extrusion

GRADE	61EK61PS	71EK71PS
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	0.3	0.3
TYPICAL APPLICATIONS	Natural color PP-B for sewage & drainage pipes	Natural color PP-B for sewage & drainage pipes
CHARACTERISTICS	Good stiffness & excellent ring stiffness. Suitable for corrugated pipes single & double wall	

PROCESS:Injection Molding

GRADE	64M40T	95MK40T
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	2.0	3.5
TYPICAL APPLICATIONS	Battery casing, crates, sheets & pipes	Pails, crates, housewares & thermoformed thin wall packaging
CHARACTERISTICS	High impact resistance & medium stiffness	Good processability, very high impact resistance & high stiffness

PROCESS:Injection Molding

GRADE	36MK10	36MK10R
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	5.5	5.5
TYPICAL APPLICATIONS	Battery cases, pails & containers, crates & boxes	
CHARACTERISTICS	Good impact stiffness balance, Good low temperature impact resistance	Good impact / stiffness balance, Low warpage

PROCESS:Injection Molding

GRADE	46MNK45	56M65
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	6.0	7.0
TYPICAL APPLICATIONS	Beverage closures, housewares and industrial packaging	Battery cases, pails & containers, crates & boxes
CHARACTERISTICS	Contains slip, consistent process ability, fast molding cycle, high stiffness and good impact resistance at low temperature	Excellent long-term heat resistance, medium impact resistance & low warpage tendency

PROCESS:Injection Molding

GRADE	87MK60T
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	8.0
TYPICAL APPLICATIONS	Child safety seat, toys, battery case, suitcase & compounding
CHARACTERISTICS	Very high impact strength & high stiffness

PROCESS:Injection Molding

GRADE	37MK10	37MK10R
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	9.0	9.0
TYPICAL APPLICATIONS	Garden furniture, housewares, pails & containers, toys, crates & boxes	
CHARACTERISTICS	Good impact / stiffness balance, Good heat stability	

PROCESS:Injection Molding

GRADE	57MNK10	57MNK40
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	12	12
TYPICAL APPLICATIONS	Garden furniture, housewares, pails & containers, toys, crates & boxes	
CHARACTERISTICS	High stiffness & medium impact resistance	

PROCESS:Injection Molding

GRADE	38MK10R	48MK40
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	16	16
TYPICAL APPLICATIONS	Pails & containers, housewares, garden furniture, crates & boxes	
CHARACTERISTICS	Good impact / stiffness balance, Good heat stability	Medium flowability, medium stiffness & impact resistance

PROCESS:Injection Molding

GRADE	49MK45	310MK10
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	21	24.5
TYPICAL APPLICATIONS	Automotive interior & exterior, home appliance parts, housewares & compounding	Home appliance parts, automotive interior & exterior, thin wall injection articles & compounding.
CHARACTERISTICS	Medium flowability, medium stiffness & impact resistance	Good impact stiffness balance, Good low temperature impact resistance, Nucleated

PROCESS:Injection Molding

GRADE	310MK40	310MK10R
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	24.5	24.5
TYPICAL APPLICATIONS	Home appliance parts, automotive interior & exterior, thin wall injection articles & compounding	
CHARACTERISTICS	Good impact stiffness balance, Good low temperature impact resistance, Nucleated & with antistatic	Good impact / stiffness balance, Good heat stability

PROCESS:Injection Molding

GRADE	511MK40T	511MK41T
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	29	29
TYPICAL APPLICATIONS	Home appliance parts, automotive interior & exterior, housewares, compounding	
CHARACTERISTICS	High stiffness & medium impact resistance	High stiffness & medium impact resistance , low warpage

PROCESS:Injection Molding

GRADE	511MK46	312MK10
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	30	39
TYPICAL APPLICATIONS	Appliances, housewares, pails & containers	Housewares, toys, appliances & thin wall containers
CHARACTERISTICS	High stiffness & medium impact resistance, excellent organoleptic properties	Good impact stiffness balance, Good low temperature impact resistance, Excellent organoleptics, Nucleated

PROCESS:Injection Molding

GRADE	312MK10R	412MK49
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	39	45
TYPICAL APPLICATIONS	Housewares, toys, appliances & thin wall containers	Housewares, toys, appliances & thin wall containers
CHARACTERISTICS	Good impact / stiffness balance, Good heat stability, Good Impact at the low temperature	Fast molding cycle, high stiffness & medium impact resistance

PROCESS:Injection Molding

GRADE	513MN40	513MK46
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	70	70
TYPICAL APPLICATIONS	Thin wall injection molded articles	Thin wall injection molded articles
CHARACTERISTICS	Very fast molding cycle & good impact resistance	Very fast molding cycle, excellent impact / stiffness balance & excellent organoleptic properties

PROCESS:Injection Molding

GRADE	FPC70T
MFR,g/10min (ASTM D 1238 230°C, 2.16kg)	70
TYPICAL APPLICATIONS	Thin wall packaging, compounding
CHARACTERISTICS	Very fast molding cycle, excellent impact / stiffness balance & excellent organoleptic properties, phthalate free

PP COMPOUND (MINERAL OR SHORT GLASS FIBER REINFORCED POLYPROPYLENE)

PROCESS:Injection Molding

GRADE	1761	1571G20
MFR,g/10min (230°C 2.16kg)	3.5	7.0
IZOD IMPACT, KJ/m² (notched+23°C)	50	3.4
E-MODULUS, MPa	1100	2700
APPLICATIONS	Lead-acid battery housing	General purpose, Under the bonnet
CHARACTERISTICS	stress whitening resistance optimized with excellent cold impact performance	High modulus and good heat stabilization

PROCESS:Injection Molding

GRADE	H1030	CK02882
MFR,g/10min (230°C 2.16kg)	8.0	10
IZOD IMPACT, KJ/m² (notched+23°C)	9	N.B.
E-MODULUS, MPa	1800	1100
APPLICATIONS	Electrical and electronic	Interior applications
CHARACTERISTICS	halogen free flame retardant, homopolymer with 35% glass fiber V0@1.5mm and 5VA@3.0mm	low density 0.950g/cm³,high crystalline copolymer,excellent aesthetic properties and UV weathering properties,high impact resistance

PROCESS:Injection Molding

GRADE	3717G20U	CK0281
MFR,g/10min (230°C 2.16kg)	13	15
IZOD IMPACT, KJ/m² (notched+23°C)	5.7	8
E-MODULUS, MPa	2350	1550
APPLICATIONS	General purpose, Under the bonnet	Interior applications
CHARACTERISTICS	Excellent balance of stiffness and impact resistance	low density 0.950g/cm³,high crystalline copolymer,excellent aesthetic properties. It offers high stiffness in perfect balance with high thermal dimensional stability, high resistance and flow.

PROCESS:Injection Molding

GRADE	3310H	3720E
MFR,g/10min (230°C 2.16kg)	25	18
IZOD IMPACT, KJ/m² (notched+23°C)	3	6
E-MODULUS, MPa	2300	2200
APPLICATIONS	General purpose, Under the bonnet	Interior applications
CHARACTERISTICS	Excellent balance of mechanical property and processing flow	Excellent stiffness and impact ratio with a low emission and flagging behavior

PROCESS:Injection Molding

GRADE	7705	9140
MFR,g/10min (230°C 2.16kg)	22	22
IZOD IMPACT, KJ/m² (notched+23°C)	20	29
E-MODULUS, MPa	1900	1870
APPLICATIONS	Interior applications	
CHARACTERISTICS	High scratch resistance, high stiffness, good impact, high flow and good esthetical performance	Good aesthetic performance, high scratch resistance, high stiffness resistance

PROCESS:Injection Molding

GRADE	9146	9710
MFR,g/10min (230°C 2.16kg)	20	23
IZOD IMPACT, KJ/m² (notched+23°C)	10	30
E-MODULUS, MPa	1900	1550
APPLICATIONS	Interior applications	
CHARACTERISTICS	Good aesthetic performance, high scratch resistance, high stiffness resistance	Excellent impact and stiffness ratio, high flow, very high scratch resistance, no stickiness and low density

PROCESS:Injection Molding

GRADE	9125	9135
MFR,g/10min (230°C 2.16kg)	20	22
IZOD IMPACT, KJ/m² (notched+23°C)	12	12
E-MODULUS, MPa	1800	1900
APPLICATIONS	Interior applications	
CHARACTERISTICS	Aesthetic performance, high scratch resistance, high stiffness, good impact and high flow, broad processing window	Excellent impact and stiffness, esthetical performance, a very high scratch resistance, no stickiness, high flow

PROCESS:Injection Molding

GRADE	9310D
MFR,g/10min (230°C 2.16kg)	20
IZOD IMPACT, KJ/m² (notched+23°C)	10
E-MODULUS, MPa	1660
APPLICATIONS	Interior applications
CHARACTERISTICS	Lightweight, balance of mechanical property and good esthetical performance

PROCESS:Injection Molding

GRADE	5450	5405
MFR,g/10min (230°C 2.16kg)	20	20
IZOD IMPACT, KJ/m² (notched+23°C)	N.B.	N.B.
E-MODULUS, MPa	1000	1200
APPLICATIONS	Exterior application	
CHARACTERISTICS	Low density, very high flow, high stiffness and high impact	Excellent flow, high impact and good stiffness. Excellent esthetical performance, very low tiger stripe visibility

PROCESS:Injection Molding

GRADE	7530	8500D
MFR,g/10min (230°C 2.16kg)	15	9.0
IZOD IMPACT, KJ/m² (notched+23°C)	N.B.	N.B.
E-MODULUS, MPa	1250	1500
APPLICATIONS	Exterior application	
CHARACTERISTICS	Good flow, high impact and stiffness, low shrinkage and CLTE, suitable for zero gap design bumper and trims	Low density and excellent stiffness impact balance, suitable for weight reduction with complex and large shape

PROCESS:Injection Molding

GRADE	7081G20
MFR,g/10min (230°C 2.16kg)	7.0
IZOD IMPACT, KJ/m² (notched+23°C)	N.B.
E-MODULUS, MPa	1500
APPLICATIONS	Exterior application
CHARACTERISTICS	Good flow, impact and stiffness

PROCESS:Injection Molding

GRADE	G3220A	G3230A
MFR,g/10min (230°C 2.16kg)	17	11
IZOD IMPACT, KJ/m² (notched+23°C)	9.5	10
E-MODULUS, MPa	4500	6900
APPLICATIONS	Under the bonnet applications	
CHARACTERISTICS	Short glass fiber reinforced PP with good performance and fast processing. Low emission & low smell	Short glass fiber reinforced PP with good performance, fast processing and low emission value

PROCESS:Injection Molding

GRADE	G3220AE	G3230AE
MFR,g/10min (230°C 2.16kg)	17	12
IZOD IMPACT, KJ/m² (notched+23°C)	10	12
E-MODULUS, MPa	4500	6300
APPLICATIONS	Under the bonnet applications	
CHARACTERISTICS	Short glass fiber reinforced PP with good performance, fast processing and low emission value	Short glass fiber reinforced PP with good performance, fast processing and low emission value

PROCESS:Injection Molding

GRADE	G3240A	G3135X
MFR,g/10min (230°C 2.16kg)	5.0	2.0
IZOD IMPACT, KJ/m² (notched+23°C)	10	10
E-MODULUS, MPa	8900	8100
APPLICATIONS	Under the bonnet applications	
CHARACTERISTICS	Short glass fiber reinforced PP with good performance and fast processing	Short glass fiber reinforced PP with high stiffness, high impact, high heat resistance and chemical resistance

PROCESS:Injection Molding

GRADE	G1620B
MFR,g/10min (230°C 2.16kg)	1.0
IZOD IMPACT, KJ/m² (notched+23°C)	17
E-MODULUS, MPa	2800
APPLICATIONS	Natural color PPR,GF for three layer PPR-GF aluminum pipes for hot/cold water pipes
CHARACTERISTICS	Good stiffness, excellent chemical & heat stability, Reduced CLTE and hence less expansion joints and require less number of supports. Pipes can be made of higher SDR as compared to the normal PPR pipes

PROCESS:Injection Molding

GRADE	1600
MFR,g/10min (230°C 2.16kg)	3.7
IZOD IMPACT, KJ/m² (notched+23°C)	52
E-MODULUS, MPa	1265
APPLICATIONS	outdoor consumer injection molded applications;
CHARACTERISTICS	medium flow, UV stabilizer

STAMAX™ LONG GLASS FIBER REINFORCED POLYPROPYLENE

PROCESS:Injection Molding

GRADE	20YM240	30YM240
E-MODULUS MPa	4800	7000
TENSILE STRENGTH, MPa	81	109
CHARPY IMPACT, KJ/m² (unnotched +23°C)	34	56
APPLICATIONS	Interior and under the bonnet applications such as tailgates, front-end modules and door structures	
CHARACTERISTICS	The PP homopolymer based materials offer low-weight, cost-effective solutions due to their extremely high stiffness and good dimensional stability. Excellent balance of low emmission and low smell performance	

PROCESS:Injection Molding

GRADE	30YM241	30YM243
E-MODULUS MPa	7000	7000
TENSILE STRENGTH, MPa	109	109
CHARPY IMPACT, KJ/m² (unnotched +23°C)	56	56
APPLICATIONS	Interior and under the bonnet applications such as tailgates, front-end modules and door structures	
CHARACTERISTICS	The PP homopolymer based materials offer low-weight, cost-effective solutions due to their extremely high stiffness and good dimensional stability. Excellent balance of low emmission and low smell performance	

PROCESS:Injection Molding

GRADE	40YM240	40YM240E
E-MODULUS MPa	9400	8200
TENSILE STRENGTH, MPa	121	110
CHARPY IMPACT, KJ/m² (unnotched +23°C)	57	55
APPLICATIONS	Interior and under the bonnet applications such as tailgates, front-end modules and door structures	
CHARACTERISTICS	The PP homopolymer based materials offer low-weight, cost-effective solutions due to their extremely high stiffness and good dimensional stability. Excellent balance of low emmission and low smell performance	

PROCESS:Injection Molding

GRADE	40YM243	60YM240
E-MODULUS MPa	8200	13500
TENSILE STRENGTH, MPa	110	110
CHARPY IMPACT, KJ/m² (unnotched +23°C)	55	57
APPLICATIONS	Interior and under the bonnet applications such as tailgates, front-end modules and door structures	
CHARACTERISTICS	The PP homopolymer based materials offer low-weight, cost-effective solutions due to their extremely high stiffness and good dimensional stability. Excellent balance of low emmission and low smell performance	

PROCESS:Injection Molding

GRADE	60YM241
E-MODULUS MPa	13500
TENSILE STRENGTH, MPa	110
CHARPY IMPACT, KJ/m² (unnotched +23°C)	57
APPLICATIONS	Interior and under the bonnet applications such as tailgates, front-end modules and door structures
CHARACTERISTICS	The PP homopolymer based materials offer low-weight, cost-effective solutions due to their extremely high stiffness and good dimensional stability. Excellent balance of low emmission and low smell performance

PROCESS:Injection Molding

GRADE	20YK270E	30YK270E
E-MODULUS MPa	4300	6400
TENSILE STRENGTH, MPa	62	98
CHARPY IMPACT, KJ/m² (unnotched +23°C)	40	66
APPLICATIONS	Interior applications such as dashboard carriers	
CHARACTERISTICS	The PP copolymers based materials offer very high impact performance, fully complying with dashboard carrier knee and head impact requirements, as well as good stiffness and smell performance	

PROCESS:Injection Molding

GRADE	60YK270E
E-MODULUS MPa	12000
TENSILE STRENGTH, MPa	102
CHARPY IMPACT, KJ/m² (unnotched +23°C)	60
APPLICATIONS	Interior applications such as dashboard carriers
CHARACTERISTICS	The PP copolymers based materials offer very high impact performance, fully complying with dashboard carrier knee and head impact requirements, as well as good stiffness and smell performance

PROCESS:Injection Molding

GRADE	30YK645	30YH530
E-MODULUS MPa	5000	7000
TENSILE STRENGTH, MPa	70	90
CHARPY IMPACT, KJ/m² (unnotched +23°C)	60	46
APPLICATIONS	Outdoor applicaitons, 5G antenna	Electrical and electronic enclosures
CHARACTERISTICS	Low Dk/Df, High impact, Flame resistance UL HB/F1	halogen free flame redardant, 30% Long glass fiber reinforced. V0@3.0mm

PROCESS:Injection Molding

GRADE	40YK710	30YH515
E-MODULUS MPa	7000	7500
TENSILE STRENGTH, MPa	92	95
CHARPY IMPACT, KJ/m² (unnotched +23°C)	66	45
APPLICATIONS	Electrical and electronic enclosures; power tools housing	Electrical and electronic enclosures
CHARACTERISTICS	Low temperature impact, can self taping screw, Flame resistance UL HB	halogen free flame redardant, 30% Long glass fiber reinforced. V0@1.5mm

LEXAN™ PC RESIN (POLYCARBONATE)

PROCESS:Injection Molding

SERIES	Auto Lighting	
GRADE	LS2	LS1
MFR,g/10min (ASTM D 1238 300℃, 1.2kg)	11	17.5
IZOD IMPACT, J/m (ASTM D 256, notched, 23℃)	800	690
TYPICAL APPLICATIONS	Automotive Lens	
CHARACTERISTICS	UV-stabilized, Medium viscosity AMECA certified	UV-stabilized, Low viscosity AMECA certified

PROCESS:Injection Molding

SERIES	General Purpose	
GRADE	141R	143R
MFR,g/10min (ASTM D 1238 300℃, 1.2kg)	10.5	10.5
IZOD IMPACT, J/m (ASTM D 256, notched, 23℃)	800	800
TYPICAL APPLICATIONS	Small appliance, telecom equipment, Automotive, consumer electronics	Lighting, telecom equipment, consumer electronics, Audio, packaging
CHARACTERISTICS	Internal mold release	UV-stabilized , Internal mold release

PROCESS:Injection Molding

SERIES	General Purpose	
GRADE	121R	123R
MFR,g/10min (ASTM D 1238 300℃, 1.2kg)	17.5	
IZOD IMPACT, J/m (ASTM D 256, notched, 23℃)	690	
TYPICAL APPLICATIONS	Automotive interior & exterior , consumer electronics, lighting	
CHARACTERISTICS	high flow and internal mold release for intricate parts	UV-stabilized , high flow and internal mold release for intricate parts

PROCESS:Injection Molding

SERIES	General Purpose	
GRADE	241R	243R
MFR,g/10min (ASTM D 1238 300℃, 1.2kg)	10.5	10.5
IZOD IMPACT, J/m (ASTM D 256, notched, 23℃)	800	800
TYPICAL APPLICATIONS	Desktop, printer, wall plate, Router	Wiring device, lighting, Small appliance
CHARACTERISTICS	Medium viscosity, V2, internal mold release	Medium viscosity, UV-stabilized, V2, internal mold release

PROCESS:Injection Molding

SERIES	General Purpose	
GRADE	223R	223S
MFR,g/10min (ASTM D 1238 300℃, 1.2kg)	17.5	18
IZOD IMPACT, J/m (ASTM D 256, notched, 23℃)	690	694
TYPICAL APPLICATIONS	Wireless communication, lighting reflector, smart meter, Home appliance, Camera	wall plate, cellphone protection case, smart audio
CHARACTERISTICS	UV-stabilized , V2, high flow and internal mold release for intricate parts	UV-stabilized, V2, high flow and super internal mold release for intricate parts

PROCESS:Injection Molding

SERIES	General Purpose	
GRADE	HF1110R	HF1130R
MFR,g/10min (ASTM D 1238 300℃, 1.2kg)	25	
IZOD IMPACT, J/m (ASTM D 256, notched, 23℃)	640	
TYPICAL APPLICATIONS	Wireless device, game player, document handling machine	
CHARACTERISTICS	Excellent flow, easy mold release for thin wall parts	UV-stabilized, excellent flow, easy mold release for thin wall parts

PROCESS:Injection Molding

SERIES	FDA	
GRADE	144R	244RF
MFR,g/10min (ASTM D 1238 300℃, 1.2kg)	10.5	10.5
IZOD IMPACT, J/m (ASTM D 256, notched, 23℃)	800	800
TYPICAL APPLICATIONS	Home appliance, food processor, toy, food disposalbe	Home appliance such as: Microwave oven, coffee machine, water kettle
CHARACTERISTICS	FDA food contact compliant, internal mold release	FDA food contact compliant,V2, internal mold release

PROCESS:Injection Molding

SERIES	Eyewear
GRADE	OQ4005
MFR,g/10min (ASTM D 1238 300℃, 1.2kg)	8.5
IZOD IMPACT, J/m (ASTM D 256, notched, 23℃)	900
TYPICAL APPLICATIONS	Sunglasses Lens
CHARACTERISTICS	Good optical properties and cleanness, UV stabilized,400nm UV cut off

PROCESS:Extrusion

SERIES	General purpose
GRADE	103R1
MFR,g/10min (ASTM D 1238 300℃, 1.2kg)	7.0
IZOD IMPACT, J/m (ASTM D 256, notched, 23℃)	900
TYPICAL APPLICATIONS	Sheet, profile part
CHARACTERISTICS	Without sink mark in thicker thickness, UV stable for outdoor and lighting, internal mold release

PROCESS:Blow Molding

SERIES	Packaging
GRADE	PK2870
MFR,g/10min (ASTM D 1238 300℃, 1.2kg)	2.5
IZOD IMPACT, J/m (ASTM D 256, notched, 23℃)	750
TYPICAL APPLICATIONS	5 gallon water bottle
CHARACTERISTICS	Branched, high viscosity, blow molding, high melt strength and impact resistance, transparent colors only, FDA 21CFR177.1580, European food contact regulation EC Directive 2002/72/EC

PROCESS:Compounding

SERIES	General Purpose
GRADE	101
MFR,g/10min (ASTM D 1238 300℃, 1.2kg)	7.0
IZOD IMPACT, J/m (ASTM D 256, notched, 23℃)	907
TYPICAL APPLICATIONS	Compounding
CHARACTERISTICS	Low flow , heat stability

PROCESS:Compounding

SERIES	General Purpose	
GRADE	IR2210	IR1810
MFR,g/10min (ASTM D 1238 300℃, 1.2kg)	10	22
IZOD IMPACT, J/m (ASTM D 256, notched, 23℃)	800	640
TYPICAL APPLICATIONS	Compounding	Compounding
CHARACTERISTICS	Medium flow , heat stability	High flow , heat stability

LEXAN™ PC FOR LIGHT APPLICATION

PROCESS:Injection Molding

SERIES	Light Management	
GRADE	LUX2180T	LUX2910T
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	18	55
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	650	500
TYPICAL APPLICATIONS	Optical parts such as : LED 1st lens, lighting lens, light guide	Optical parts such as : LED 1st lens, lighting lens, light guide
CHARACTERISTICS	High transmission and cleanness, UV stabilized, color stability, V2, F1	High transmission and cleanness, superior flow, color stability, V2

PROCESS:Injection Molding

SERIES	Light Management	
GRADE	LUX2614	LUX2114G
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	7.0	18
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	750	600
TYPICAL APPLICATIONS	Lighting, LED tube	Lighting, LED bulb
CHARACTERISTICS	Diffusion, internal mold release, V2, UV stabilized, F2	Diffusion, internal mold release, V2, UV stabilized, F2 long term stability

PROCESS:Injection Molding

SERIES	Light Management	
GRADE	LUX2289	LUX9612G
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	16	7.0
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	600	400
TYPICAL APPLICATIONS	Light reflector, light shielding parts	Lighting, LED bulb
CHARACTERISTICS	High light reflectance, UV stabilized, V2	Diffusion, non brominated and non chlorinated FR system, V0@1.5mm

PROCESS:Injection Molding

SERIES	Light Management	
GRADE	LUX9616G	LUX9230T
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	7.0	14
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	450	800
TYPICAL APPLICATIONS	Lighting, LED bulb	Lighting , clear Lens, bulb
CHARACTERISTICS	Diffusion, non brominated and non chlorinated FR system, V0@1.5mm	Clear, halogen-free flame retardant PC has a V0@3.05mm UL rating, UV resistance, F1

PROCESS:Injection Molding

SERIES	Light Management	
GRADE	LUX9610	LUX7169 (WH8G733)
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	7.0	22
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	760	90
TYPICAL APPLICATIONS	Lighting , clear Lens, bulb and tube	Lighting, reflector
CHARACTERISTICS	Clear, halogen-free flame retardant PC has a V0@1.5mm UL rating,UV resistance, F2	Reflectivity, halogen-free flame retardant PC has a V0@0.9mm UL rating, UV resistance, F2

PROCESS:Injection Molding

SERIES	Light Management
GRADE	BFL2000(U)
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	32
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	600
TYPICAL APPLICATIONS	Lighting, reflector
CHARACTERISTICS	Reflectivity, halogen-free flame retardant PC has a V0@1.5mm UL rating; Grade name with suffix U stands for weathering capability

LEXAN™ FLAME RETARDANT GRADES

PROCESS:Injection Molding

SERIES	Non-Filled, Opaque FR-PC	
GRADE	905	BPL1000
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	30	25
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	740	600
TYPICAL APPLICATION	Thin wall application, electric housing	Thin wall application, battery enclosures, connectors
CHARACTERISTICS	High flow, opaque, Eco FR systems with UL-94 listing of both V0@1.1mm and 5VA@2.8mm ratings.	High flow, clear Nonbrominated, nonchlorinated FR systems with UL-94 listing of V0@3.0 mm rating

PROCESS:Injection Molding

SERIES	Non-Filled, Opaque FR-PC	
GRADE	915R	916R
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	18	18*
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	740	65**
TYPICAL APPLICATIONS	Document handling, electric housings	Document handling, electric housings
CHARACTERISTICS	Good flow and mold release properties. Opaque, Eco FR systems with UL-94 listing of V0@1.1mm rating.	Good flow and mold release properties. Opaque, Eco FR systems with UL-94 listing of V0@0.8mm rating.Limited to color

PROCESS:Injection Molding

SERIES	Non-Filled, Opaque FR-PC	
GRADE	925	925U
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	14	14
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	800	800
TYPICAL APPLICATIONS	Document handling, electric housings	Document handling, outdoor electric housings
CHARACTERISTICS	Eco FR PC has an UL-94 V0@1.1mm rating flow and impact balance	Eco FR PC has an UL-94 V0@1.5mm rating and is UV stabilized, F1, providing additional weathering capability

PROCESS:Injection Molding

SERIES	Non-Filled, Opaque FR-PC	
GRADE	945	945U
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	10	10
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	800	800
TYPICAL APPLICATIONS	Adaptor, charger, battery enclosures,	Electrical housing,
CHARACTERISTICS	Eco FR PC has an UL-94 V0@1.0mm and 5VA@3.0mm ratings, it is a general purpose resin designed to meet the needs of various applications.	Eco FR PC has an UL-94 V0@1.5mm and 5VA@3.0mm ratings , F1,it is UV stabilized, providing additional weathering capability

PROCESS:Injection Molding

SERIES	Non-Filled, Opaque FR-PC	
GRADE	945M	955
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	10	7.0
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	818	800
TYPICAL APPLICATIONS	Adaptor, charger, battery enclosures, EV charger	Lighting, LED bulb
CHARACTERISTICS	Eco FR PC has an UL-94 V0@1.5mm and 5VA@3.0mm ratings, good impact at low temperature, it is a general purpose resin designed to meet the needs of various applications.	Eco FR PC has an UL-94 V0@1.5mm and 5VA@3.0mm ratings , it is a general purpose resin designed to meet the needs of various applications

*MFR - ISO1133 at 300°C/1.2kg in cm3/10min
**IZOD IMPACT - ISO180/1A at 23°C in kJ/m²

LEXAN™ FLAME RETARDANT GRADES

PROCESS:Injection Molding

SERIES	Non-Filled, Opaque FR-PC	
GRADE	905AU	915AU
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	27	23
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	700	650
TYPICAL APPLICATIONS	Thin wall application, electric housing	Thin wall application, battery enclosures, connectors
CHARACTERISTICS	High flow, clear Nonbrominated, nonchlorinated FR systems with UL-94 listing of V0@2.5 mm rating	High flow, clear Nonbrominated, nonchlorinated FR systems with UL-94 listing of V0@3.0 mm rating

PROCESS:Injection Molding

SERIES	Non-Filled, Opaque FR-PC	
GRADE	925A	925AU
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	13	13
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	800	800
TYPICAL APPLICATIONS	Document handling, electric housings	Document handling, electric housings
CHARACTERISTICS	Clear Nonbrominated nonchlorinated FR systems with UL-94 listing of V0@3.0 mm rating	Nonbrominated, nonchlorinated FR PC has an UL-94 V0@3.0mm rating and is UV stabilized, F1, providing additional weathering capability

PROCESS:Injection Molding

SERIES	Non-Filled, Opaque FR-PC	
GRADE	945A	945AU
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	10	10
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	800	800
TYPICAL APPLICATIONS	Document handling, outdoor electric housings	Document handling, electric housings
CHARACTERISTICS	Nonbrominated, nonchlorinated FR PC has an UL-94 V0@3.0mm rating	Eco FR PC has an UL-94 V0@3.0mm rating and is UV stabilized, F1, providing additional weathering capability

PROCESS:Injection Molding

SERIES	Non-Filled, Opaque FR-PC	
GRADE	9925A	955AU
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	13	7.0
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	750	800
TYPICAL APPLICATIONS	Electrical housing, thin wall FR clear application	Connectors, document handling
CHARACTERISTICS	Nonbrominated, nonchlorinated FR PC has an UL-94 V0@1.5mm rating , F1,it is UV stabilized, providing additional weathering capability	Nonbrominated, nonchlorinatedFR PC has an UL-94 V0@3.0mm rating and is UV stabilized, F1, providing additional weathering capability

PROCESS:Injection Molding

SERIES	Glass Filled, FR-PC	
GRADE	505R	505RU
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	7.0	8.0
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	100	90
TYPICAL APPLICATIONS	Connector, electric housing	electric enclosure, connectors
CHARACTERISTICS	Nonbrominated, nonchlorinated FR UL94 V0@1.5mm, 5VA@2.0mm, 10%GF filled 5VA@3.0 mm	Nonbrominated, nonchlorinated FR UL94 V0@1.5mm, 5VA@3.0mm, 5VB@3.0mm F1, UV resistance, 10%GF filled

PROCESS:Injection Molding

SERIES	Glass Filled, FR-PC	
GRADE	515RU	BFL2010
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	9.0*	15
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	10**	110
TYPICAL APPLICATIONS	Document handling, electric housings	Electric housings, consumer appliance
CHARACTERISTICS	Nonbrominated, nonchlorinated FR UL94 V0@1.5mm, 5VA at 3.0mm, F1, UV resistance , higher impact, 10% GF filled	Nonbrominated, nonchlorinated FR UL94 V0@1.5mm, high flow, 10%GF filled

PROCESS:Injection Molding

SERIES	Glass Filled, FR-PC	
GRADE	BFL2015	3412ECR
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	6.5	7.0
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	78	110
TYPICAL APPLICATIONS	Electric housings, consumer appliance	Connector, electric housing
CHARACTERISTICS	Nonbrominated, nonchlorinated FR UL94 V0@1.5mm, middle flow 15%GF filled	Nonbrominated, nonchlorinated FR UL94 V0@1.5mm, 5VA@3.0mm, F1, UV resistance, 20%GF filled

PROCESS:Injection Molding

SERIES	Structural foam
GRADE	FL905
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	3.2
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	520
TYPICAL APPLICATIONS	Package,electrical enclosures
CHARACTERISTICS	Nonbrominated, nonchlorinated FR, UL94 V0@3.0mm, 5VA@6.0mm

*MFR - ISO1133 at 300°C/1.2kg in cm³/10min
**IZOD IMPACT - ISO180/1A at 23°C in kJ/m²

LEXAN™ PC FOR HEALTHCARE

PROCESS:Injection Molding

SERIES	ETO
GRADE	HP1HF
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	39
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	687
TYPICAL APPLICATIONS	Healthcare application
CHARACTERISTICS	Biocompatible (ISO10993 or USP Class VI) Contains mold release, high flow

PROCESS:Injection Molding

SERIES	ETO& Autoclave	
GRADE	HP1	HP2
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	25	17.5
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	640	694
TYPICAL APPLICATIONS	Medical devices and pharmaceutical applications	Medical devices and pharmaceutical applications
CHARACTERISTICS	Biocompatible (ISO10993 or USP Class VI) Contains mold release	Biocompatible (ISO10993 or USP Class VI) Contains mold release

PROCESS:Injection Molding

SERIES	ETO& Autoclave
GRADE	HP4
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	10.5
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	801
TYPICAL APPLICATIONS	Medical devices and pharmaceutical applications
CHARACTERISTICS	Biocompatible (ISO10993 or USP Class VI) Contains mold release

PROCESS:Injection Molding

SERIES	Gamma ETO Autoclave	
GRADE	HPS1	HPS2
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	25	17.5
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	640	694
TYPICAL APPLICATIONS	Medical devices and pharmaceutical applications	Medical devices and pharmaceutical applications
CHARACTERISTICS	Biocompatible (ISO10993 or USP Class VI) Contains mold release	Biocompatible (ISO10993 or USP Class VI) Contains mold release

PROCESS:Injection Molding

SERIES	Gamma ETO Autoclave	
GRADE	HPS4	HPS6
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	10	7.0
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	840	907
TYPICAL APPLICATIONS	Medical devices and pharmaceutical applications	Medical devices and pharmaceutical applications
CHARACTERISTICS	Biocompatible (ISO10993 or USP Class VI) Contains mold release	Biocompatible (ISO10993 or USP Class VI) Contains mold release

PROCESS:Injection Molding

SERIES	Gamma ETO Autoclave
GRADE	HPS7
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	5.0
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	935
TYPICAL APPLICATIONS	Medical devices and pharmaceutical applications
CHARACTERISTICS	Biocompatible (ISO10993 or USP Class VI) Contains mold release Lipid resistance

SABIC® PC RESIN (POLYCARBONATE)

PROCESS:Injection Molding

SERIES	General Purpose	
GRADE	PC1000R	PC1003R
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	10	10
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	800	800
TYPICAL APPLICATIONS	Wall plate, switch, home appliance	Electric meter; Lighting
CHARACTERISTICS	Middle flow; Heat stabilized; Internal mold release	Middle flow, heat and UV stabilized, internal mold release

PROCESS:Injection Molding

SERIES	General Purpose
GRADE	PC2200R
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	22
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	600
TYPICAL APPLICATIONS	Fan, small home appliance; Lighting
CHARACTERISTICS	High flow, heat stabilized; Internal mold release

PROCESS:Injection Molding

SERIES	Optical Media	FDA
GRADE	PC5800	PC1004R
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	58	10
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	150	800
TYPICAL APPLICATIONS	Media market: DVD,CD	Home appliance, food processor, toy, food disposable
CHARACTERISTICS	Super high flow	Middle flow product, with internal mold release, FDA food contact compliant

PROCESS:Injection Molding

SERIES	Auto Lighting
GRADE	ALS01
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	12
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	800
TYPICAL APPLICATIONS	Automotive Lens
CHARACTERISTICS	Middle flow product, UV stabilized

PROCESS:Extrusion

SERIES	General Purpose
GRADE	PC0703R
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	7.0
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	900
TYPICAL APPLICATIONS	Sheet
CHARACTERISTICS	Low flow, heat and UV stabilized, internal mold release

PROCESS:Compounding

SERIES	General Purpose	
GRADE	PC0700	PC2200
MFR,g/10min (ASTM D 1238, 300°C/1.2kg)	7.0	22
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	900	600
TYPICAL APPLICATIONS	Compounding	Compounding
CHARACTERISTICS	Low flow, heat stabilized	High flow, heat stabilized

VALOX™ RESIN PBT (POLYBUTYLENE TEREPHTHALATE)

PROCESS:Injection Molding

SERIES	Standard	
GRADE	325	420
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	53	110
FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	2340	8000
TYPICAL APPLICATIONS	Sprinklers and nozzles, pumps, door handle, tank covers, pens, pencils	Appliance handles, spotlights, electric motors
CHARACTERISTICS	Unreinforced; Improved processing	30% GF, excellent strength, stiffness and dimensional stability

PROCESS:Injection Molding

SERIES	Impact modified	
GRADE	V3004	VIC4311
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	51	137
FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	2300	6080
TYPICAL APPLICATIONS	Fexible hinge, automotive connectors, film applications	Automotive underhood applications such as ignition coil housings
CHARACTERISTICS	Unfilled impact modified PBT	30% GF, impact modified PBT with excellent epoxy adhesion

PROCESS:Injection Molding

SERIES	Metallizable	
GRADE	V2000DM	EH7020
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	46	32
FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	2570	4130
TYPICAL APPLICATIONS	Automotive lighting bezel	Automotive bezel applications
CHARACTERISTICS	Unreinforced, directly metallizable PBT resin	Mineral filled, Metallizable, PBT

PROCESS:Injection Molding

SERIES	FDA / Food Contact	Low warpage
GRADE	325FC	508
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	38	96
FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	2340	6890
TYPICAL APPLICATIONS	Kitchenware applications	Appliance handles, spotlights, electric motors
CHARACTERISTICS	FDA / Food Contact , PBT	30% GF filled PBT/PC, excellent mechanical and thermal performance

PROCESS:Injection Molding

SERIES	Low warpage + weatherable	High Heat + Aesthetics
GRADE	VX4920	830
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	80	90
FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	5500	7400
TYPICAL APPLICATIONS	Connectors and automotive industry	Hot air gun housing assemblies, industrial glue guns, appliance housings and handles
CHARACTERISTICS	20% GF, nucleated PBT/ASA blend with excellent mechanical properties	30% GF PBT/PET, excellent surface finish

PROCESS:Injection Molding

SERIES	Hydrostable	Healthcare
GRADE	K4560	HX420HP
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	96	85
FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	7200	7580
TYPICAL APPLICATIONS	Automotive applications	Medical devices and pharmaceutical applications
CHARACTERISTICS	30% GF PBT, Impact modified, high flow, hydrolytically stable	Medium flow, 30% GF PBT, Biocompatible (ISO10993 or USP Class VI)

VALOX™ RESIN
FLAME RETARDANT PBT&PET BLENDS

SERIES	PBT/PC	
GF%	0	0
GRADE	357X(U)	V3900WX*
FR RATE(UL 94) MVR, cm³/10min (250°C/5.0 kg)	V0@0.75mm, 5VA@2.5mm, MVR8	V0@1.5mm 5VA@3.0mm, MVR11
FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	2060	2200
TYPICAL APPLICATIONS	Connector, electronic housings	Battery enclosure, electronic housing
CHARACTERISTICS	Weatherable,F1	Weatherable,F1

SERIES	PBT/PC	
GF%	10	30
GRADE	4512	553
FR RATE(UL 94) MVR, cm³/10min (250°C/5.0 kg)	V0@0.75mm , MVR 30	V0@0.8mm, MVR20
FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	3400	9400
TYPICAL APPLICATIONS	Electric motors, connector	Electric motors, connector
CHARACTERISTICS	Impact modified	Lower warpage

SERIES	PBT/PET	
GF%	15	30
GRADE	855	865
FR RATE(UL 94) MVR, cm³/10min (250°C/5.0 kg)	V0@1.5mm, MVR32	V0@1.7mm, MVR23
FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	5200	8000
TYPICAL APPLICATIONS	External housings, steam irons, appliance housings and lighting parts	External housings, steam irons, appliance housings and lighting parts
CHARACTERISTICS	Improved surface appearance	Flame retardant PBT+PET blend with an excellent surface appearance

SERIES	PBT	
GF%	0	6.5
GRADE	310SE0	457
FR RATE(UL 94) MVR, cm³/10min (250°C/5.0 kg)	V0@0.71mm, 5VA@3.0mm, MVR15	V0@0.71mm, MVR30
FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	2620	3700
TYPICAL APPLICATIONS	Electrical industry, bobbins, components and appliance housings	Electrical and appliances industries
CHARACTERISTICS	Standard	Standard

SERIES	PBT	
GF%	17	20
GRADE	DR48	4521
FR RATE(UL 94) MVR, cm³/10min (250°C/5.0 kg)	V0@0.9mm, MVR40	V0@0.75mm, 5VA@2.0mm,MVR65
FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	5200	6500
TYPICAL APPLICATIONS	Lamp sockets, connectors, switches	Electrical applications
CHARACTERISTICS	Standard	Electrical/CTI

SERIES	PBT	
GF%	30	30
GRADE	420SE0	4631
FR RATE(UL 94) MVR, cm³/10min (250°C/5.0 kg)	V0@0.7mm, 5VA@2.0mm, MVR29	V0@0.75mm, MVR40
FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	9800	9000
TYPICAL APPLICATIONS	Edge trimmers, food mixer motor stator and commutator, cooling fan	Edge trimmers, food mixer motor stator and commutator, cooling fan
CHARACTERISTICS	Standard	Electrical/CTI

SERIES	PBT	
GF%	30	30
GRADE	V4760	V4860HR
FR RATE(UL 94) MVR, cm³/10min (250°C/5.0 kg)	V0@0.3mm, MVR28	V0@0.8mm , MVR12
FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	9500	6740
TYPICAL APPLICATIONS	Electrical applications	Electrical and medical application
CHARACTERISTICS	Thin wall brominated FR, high flow, high CTI	Hydrolytically stable, Impact Modified

SERIES	PBT
GF%	35**
GRADE	771
FR RATE(UL 94) MVR, cm³/10min (250°C/5.0 kg)	V0@0.75mm, 5VA@2.0mm, MVR8
FLEXURAL MODULUS, MPa (ASTM D 790, 1.3 mm/min, 50 mm span)	7900
TYPICAL APPLICATIONS	Electrical applications
CHARACTERISTICS	Hydrolytically stable, Electrical/CTI

*MVR test condition: 265°C, 2.16 kg
**Glass filled/mineral filled

CYCOLAC™ RESIN ABS (ACRYLONITRILE BUTADIENE STYRENE)

PROCESS:Injection Molding

SERIES	General Purpose	
GRADE	MG47 (F/N)	MG94(F)
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	320	240
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	80	82
TYPICAL APPLICATIONS	Home appliance, Toy, Business equipment	Large size and thin wall applications
CHARACTERISTICS	General purpose, medium impact, balanced flow; Grade name with suffix F stands for FDA compliant; Grade name with suffix N stands for NSF compliant	High flow, impact Grade name with suffix F stands for FDA compliant

PROCESS:Injection Molding

SERIES	Flame Retardant
GRADE	FR15(U)
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	213
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	70
TYPICAL APPLICATIONS	Electronic housing, switches, computer equipment
CHARACTERISTICS	V0 at 1.5mm, balanced property

PROCESS:Injection Molding

SERIES	High Heat	
GRADE	X11	DL200H
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	320	620
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	86	96
TYPICAL APPLICATIONS	Automotive interior, rear lighting housing, rear mirror housing; Warm air blower	Automotive interior, rear lighting housing, rear mirror housing; warm air blower
CHARACTERISTICS	HDT 90°C, balanced flow/ impact	HDT 101°C, medium impact

PROCESS:Injection Molding

SERIES	Healthcare	
GRADE	HMG47MD	HMG94MD
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	320	240
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	82	82
TYPICAL APPLICATIONS	Medical disposable, housing, handles, drain bases	Medical disposable, housing, handles, drain bases
CHARACTERISTICS	Flow/impact balanced. Biocompatible. Healthcare	High Flow; Biocompatible; Healthcare

PROCESS:Injection Molding

SERIES	Plating	SAN
GRADE	MG37EPX	INP576
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	250	21
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	76	87
TYPICAL APPLICATIONS	Automotive front grill, name plate, decoration strip; Bathroom accessory	Drink cup; houseware; polymer compounding
CHARACTERISTICS	General purpose easy plating	Middle Flow, FDA

PROCESS:Extrusion

SERIES	Extrusion
GRADE	EX58 (F)
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	432
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	76
TYPICAL APPLICATIONS	Sheet extrusion, trunk & suitcase shin
CHARACTERISTICS	High Impact; Grade name with suffix F stands for FDA compliant

GELOY™ RESIN ASA (ACRYLIC STYRENE ACRYLONITRILE)

PROCESS:Injection Molding

SERIES	General Purpose	
GRADE	CR8510	CR7520
IZOD IMPACT, kJ/m2 (ISO 180/1A, notched 80*10*4, +23°C)	15	9.0
MFR, g/10min (ASTM D 1238, 220°C/10kg)	6.3	7
TYPICAL APPLICATIONS	Automotive front grill, external rear mirror housing, rear light housing, center high mounting stop lamp, spoiler	Automotive, transportation, marine, sport leisure equipment
CHARACTERISTICS	High heat resistance, F1 listing, especially for automotive parts	Standard heat, high flow, F2

PROCESS:Injection Molding

SERIES	General Purpose
GRADE	CR7500
IZOD IMPACT, kJ/m2 (ISO 180/1A, notched 80*10*4, +23°C)	15
MFR, g/10min (ASTM D 1238, 220°C/10kg)	6.3
TYPICAL APPLICATIONS	Automotive, transportation, marine, sport leisure equipment
CHARACTERISTICS	Optimum flow impact balance. Auto spec

PROCESS:Injection Molding

SERIES	Extreme Weather- ability
GRADE	XTWM206
IZOD IMPACT, kJ/m2 (ISO 180/1A, notched 80*10*4, +23°C)	15
MFR, g/10min (ASTM D 1238, 220°C/10kg)	8.8
TYPICAL APPLICATIONS	Automotive front grill, Building & Construction applications, Sport & leisure equipment
CHARACTERISTICS	Extreme weatherability, F1 listing, high stiffness

PROCESS:Extrusion

SERIES	General Purpose
GRADE	CR7020
IZOD IMPACT, kJ/m2 (ISO 180/1A, notched 80*10*4, +23°C)	32
MFR, g/10min (ASTM D 1238, 220°C/10kg)	7
TYPICAL APPLICATIONS	Cap -stock for roof tile, siding, window profile and fence, multiple layer sheet
CHARACTERISTICS	Medium gloss, high impact, F2 rating

PROCESS:Extreme Weather- ability

SERIES	Extreme Weather- ability	
GRADE	XTWE270M	XTWE480
IZOD IMPACT, kJ/m2 (ISO 180/1A, notched 80*10*4, +23°C)	13	5.0
MFR, g/10min (ASTM D 1238, 220°C/10kg)	9.7	38
TYPICAL APPLICATIONS	Window profile cap- stock	Window profile cap stock
CHARACTERISTICS	High gloss, extreme weatherability, suitable for PVC co-extrusion	High gloss, scratch resistance, suitable for PVC co-extrusion

GELOY™ RESIN PC/ASA

PROCESS:Injection Molding

SERIES	General Purpose	
GRADE	XP4025	XP4034
IZOD IMPACT, kJ/m² (ISO 180/1A, notched 80*10*4, +23°C)	15	33
VICAT SOFTENING TEMP, °C (ISO 306, B/120)	107	109
TYPICAL APPLICATIONS	Consumer appliances housing, transporation panel, automotive, outdoor device housing	Automotive external/ inner rear mirror housing, roof rack trim, lift gate/decklid handle housing, license plate frame
CHARACTERISTICS	Cost balanced	High heat resistance, middle impact, F2 rating

PROCESS:Injection Molding

SERIES	General Purpose
GRADE	XP4020R
IZOD IMPACT, kJ/m² (ISO 180/1A, notched 80*10*4, +23°C)	na
VICAT SOFTENING TEMP, °C (ISO 306, B/120)	na
TYPICAL APPLICATIONS	Consumer appliances housing, transporation panel, automotive, outdoor device housing
CHARACTERISTICS	High flow, 20% Post industrial recycle

PROCESS:Injection Molding

SERIES	Flame Retardant	
GRADE	HRA222 (F)	XTPMFR10
IZOD IMPACT, kJ/m² (ISO 180/1A, notched 80*10*4, +23°C)	17	13
VICAT SOFTENING TEMP, °C (ISO 306, B/120)	104	98
TYPICAL APPLICATIONS	Coffee machine, switch panel, medical device, telecom device	Consumer appliances housing, transporation panel, automotive, outdoor device housing
CHARACTERISTICS	Non-Br/Cr FR, V0@2 mm, 5VB@2 mm, Grade name with suffix F stands for UL94 F1 rating	Non-Br/Cr FR, V0@1.0 mm, 5VB@2 mm

CYCOLOY™ RESIN PC/ABS

PROCESS:Injection Molding

SERIES	Non-FR general purpose	
GRADE	C1200HF	HC1204HF
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	587	580
MFR, g/10min (ASTM D 1238, 260°C/5kg)	19	24
TYPICAL APPLICATIONS	Automotive interior & exterior, lighting, consumer electronic, telecommunication	Medical equipment and device
CHARACTERISTICS	High heat, high impact, low temperature impact	Healthcare biocompatible (ISO 10993, USP class VI compliance)

PROCESS:Injection Molding

SERIES	Non-FR general purpose	
GRADE	LG9000	MC1300
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	534	534
MFR, g/10min (ASTM D 1238, 260°C/5kg)	17	14
TYPICAL APPLICATIONS	Automotive interior	Automotive door handle, front grill, name plate, decoration strip; Bathroom accessory
CHARACTERISTICS	Low gloss	Plating grade, excellent flow and impact

PROCESS:Injection Molding

SERIES	Non-FR general purpose	
GRADE	CP8320	XCY620
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	600	640
MFR, g/10min (ASTM D 1238, 260°C/5kg)	14	17
TYPICAL APPLICATIONS	Automotive door handle, front grill, name plate, decoration strip; Bathroom accessory	Automotive interior & exterior
CHARACTERISTICS	Plating grade, medium heat	Excellent properties retention after Hydrolytic and Heat Aging

PROCESS:Injection Molding

SERIES	Non-FR general purpose
GRADE	XCY620S
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	680
MFR, g/10min (ASTM D 1238, 260°C/5kg)	23
TYPICAL APPLICATIONS	Automotive interior & exterior
CHARACTERISTICS	Standard colors available

CYCOLOY™ RESIN PC/ABS AND PC BLENDS FLAME RETARDANT GRADES

PROCESS:Injection Molding

SERIES	Non-Filled, FR-PC/ABS &PC blend	
GRADE	C6600*	CY6110*
MFR	21	23
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	550	475
TYPICAL APPLICATIONS	Document handling, consumer appliance	Document handling, electrical housing
CHARACTERISTICS	Nonbrominated, nonchlorinated FR V0@1.5mm, 5VB@2mm, hydrostable	Nonbrominated, nonchlorinated FR V0@1.5mm, 5VB@2.5mm, high hydrostable, high flow and high impact

PROCESS:Injection Molding

SERIES	Non-Filled, FR-PC/ABS &PC blend	
GRADE	CY6310*	CY6414**
MFR	20	14
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	600	795
TYPICAL APPLICATIONS	Document handling, electric housings	Electric housings; Adaptor& chargers
CHARACTERISTICS	Nonbrominated, nonchlorinated FR V0@1.5mm, 5VA@2.9mm, 5VB@2.3mm , high impact, heat, flow	Nonbrominated, nonchlorinated FR V0 @1.2mm, 5VB@2.5mm, High Heat, Impact Modified PC blend

PROCESS:Injection Molding

SERIES	Non-Filled, FR-PC/ABS &PC blend	
GRADE	CY6120*	CY6025*
MFR	18	28
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	587	370
TYPICAL APPLICATIONS	Electric housings, consumer appliance	Document handling, electric housings
CHARACTERISTICS	Nonbrominated, nonchlorinated FR V0@1.2mm	Nonbrominated, nonchlorinated FR V0@1.2mm, 5VB@1.5mm, high flow

PROCESS:Extrusion

SERIES	Non-Filled, FR-PC/ABS &PC blend
GRADE	CE3510***
MFR	8.0
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	664
TYPICAL APPLICATIONS	Cable, profile
CHARACTERISTICS	Nonbrominated, nonchlorinated FR V0@1.5mm, halogen free according to DIN VDE 0472/815 for cable channels; Compliance to IEC1386-1 & EN50085/86

CYCOLOY™ PC/ABS AND PC BLENDS FLAME RETARDANT GRADES

PROCESS:Injection Molding

SERIES	Filled ,FR PC/ABS	
GRADE	CM6140*	CM6240*
MFR, g/10min (ASTM D 1238, 260°C/5kg)	17.5	16.5
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	200	86
TYPICAL APPLICATIONS	Electric housing	Electric housing
CHARACTERISTICS	3.3 GPa, Vicat 91°C Nonbrominated, nonchlorinated FR V0 @ 0.8mm, V1@ 0.6mm 5VB@ 1.5mm	4.4 GPa, Vicat 97°C, Nonbrominated, nonchlorinated FR V0 @ 0.8mm 5VB@ 1.5mm

PROCESS:Injection Molding

SERIES	Filled ,FR PC/ABS
GRADE	C7230P*
MFR, g/10min (ASTM D 1238, 260°C/5kg)	13
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	69
TYPICAL APPLICATIONS	Electric housing
CHARACTERISTICS	4.5 GPa, Vicat 108°C Nonbrominated, nonchlorinated FR V0 @ 1.2mm , 5VB@ 2.0mm

PROCESS:Injection/ Extrusion/ Thermoforming

SERIES	Filled ,FR PC/ABS
GRADE	CM6210**
MFR, g/10min (ASTM D 1238, 260°C/5kg)	11.5
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	500
TYPICAL APPLICATIONS	Electric housing sheet extrusion
CHARACTERISTICS	3.5 GPa, Vicat 106°C Nonbrominated, nonchlorinated FR V0 @ 1.5 mm

*MFR at 260°C/2.16 kg in g/10 min
**MFR at 260°C/5 kg in g/10 min
***MVR at 260°C/5kg in cm^3/10 min
Vicat B/50- ASTM1525 & ISO306

XENOY™ RESIN PC/PBT

PROCESS:Injection Molding

SERIES	General Purpose	
GRADE	5220U	CL100
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	710	700
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	84	90
TYPICAL APPLICATIONS	Recreation & Agriculture equipment, Handset housing & accessory, Power tools, CE handset accessory, housing	Heavy trucks (body panels) shoe caps
CHARACTERISTICS	Chemical & UV resistance, Low temperature ductility, Molded-in-color	Chemical resistance, Low temperature ductility, Molded-in-color, Good paint adhesion

PROCESS:Injection Molding

SERIES	Weather- ability
GRADE	1731
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	667
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	93
TYPICAL APPLICATIONS	Exterior components (door handles), CE wearables (athletic trackers)
CHARACTERISTICS	Impact/Chemical resistance; Molded-in-color

PROCESS:Injection Molding

SERIES	Low Temp Ductility	
GRADE	6620U	5720U
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	801	722
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	53	83
TYPICAL APPLICATIONS	Gas tanks, Irrigation sprinklers, Packaging consumer electronics	Recreational & Ag equipment, Packaging
CHARACTERISTICS	Chemical & UV resistance, barrier to fuel, molded-in-color, weathering capability	Chemical & UV resistance, LT ductility ("Best-in-class"), Molded-in-color, weathering capability

PROCESS:Injection Molding

SERIES	Low Temp Ductility	
GRADE	1102	1105
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	801	755
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	90*	97*
TYPICAL APPLICATIONS	Energy Absorbers, bumper beam home appliance	
CHARACTERISTICS	Excellent low temperatue impact/ chemical resistance to automotive fluids	Impact modified, excellent toughness at low temperatures, very good paintability

PROCESS:Injection Molding

SERIES	High Heat
GRADE	X2500UV
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	600
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	108
TYPICAL APPLICATIONS	Heavy trucks (body panels)
CHARACTERISTICS	Chemical resistance,Low temperature ductility, Molded-in-color, Good paint adhesion, Improved heat (vs CL100)

PROCESS:Injection Molding

SERIES	Filled PC/PBT	
GRADE	X6320	X5230
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	45	8**
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	88	100***
TYPICAL APPLICATIONS	Painted door handle	Automotive and OVAD
CHARACTERISTICS	10% mineral; Good surface finish and ease of process	15% Talc filled , good surface appearance for painted solutions

PROCESS:Injection Molding

SERIES	Filled PC/PBT
GRADE	6370
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	170
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	148
TYPICAL APPLICATIONS	Automotive and OVAD
CHARACTERISTICS	30% glass fiber. Impact modified/toughness

PROCESS:Injection Molding

SERIES	HMD (High Modulus Ductile)	
GRADE	X4830	X4850
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	600	180
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	106	101
TYPICAL APPLICATIONS	Outdoor equipment, door handle, flexible hinges	
CHARACTERISTICS	Hydrostable,7% mineral, high modulus, low temperature ductile	12% mineral, Hydrostable, high modulus, high ductile

* HDT Part thickness 6.4mm
** IZOD IMPACT - ISO100/1A in kJ/m^2
***HDT - ISO75/Ae

XYLEX™ RESIN PC/PET ALLOY

PROCESS:Injection Molding

SERIES	Consumer Electronics	
GRADE	X7300(CL)	X8210
MFR, g/10min (ASTM D 1238, 265°C/ 2.16kg)	21	10
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	660	800
TYPICAL APPLICATIONS	Mobile phones cover and lens,peripherals & device	
CHARACTERISTICS	Transperent, chemical resistance, low temperature processing. Grade name with suffix CL stands for clean	Transperent, Chemical resistance, low temperature processing.

PROCESS:Injection Molding

SERIES	General Purpose	
GRADE	X8409AC	X7507
MFR, g/10min (ASTM D 1238, 265°C/ 2.16kg)	4.0	8.0
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	854	990
TYPICAL APPLICATIONS	Power tools, others	Pool Spa
CHARACTERISTICS	High viscosity and melt strength, extrusion, blow moldable, selective Plating	Transparent, UL F1 performance; Chemical resistance vs pool cleaners

PROCESS:Injection Molding

SERIES	General Purpose	
GRADE	X8300(CL)	X7509HP
MFR, g/10min (ASTM D 1238, 265°C/ 2.16kg)	15	12
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	1120	850
TYPICAL APPLICATIONS	Personal consumer (safety, sunglasses) Eye ware	Consumer Housewares Food service
CHARACTERISTICS	Transparent,high chemical resistance, low temperature processing.	Transparent, better flow, excellent selective plating, FDA

PROCESS:Injection Molding

SERIES	Healthcare	
GRADE	HX8300HP	HX7509HP
MFR, g/10min (ASTM D 1238, 265°C/ 2.16kg)	15	12
IZOD IMPACT, J/m (ASTM D 256, notched, 23°C)	1120	854
TYPICAL APPLICATIONS	Medical Equipment and Delivery Devices	
CHARACTERISTICS	Transparent, high chemical resistance, better flow ; Biocompatible	Transparent, chemical resistance, Biocompatible

POM (POLYOXYMETHYLENE)

REMARKS: NOT ALL POM GRADES ARE AVIALABLE IN ASIA. PLEASE CHECK WITH US FOR THE PRODUCT AVIALABILITY IN SPECIFIC COUNTRIES.

PROCESS:Extrusion Molding

GRADE	30RE	30S
MELT INDEX g/10min (ISO1133, 190°C/ 2.16kg)	2.8	3.0
DENSITY (g/cm³)	1.41	1.41
TYPICAL APPLICATIONS	Thick-walled, void - free molded parts, Extruded stock shapes	Thick-walled, void - free parts used for automotive parts like door handles, sheet, rods and tubing
CHARACTERISTICS	Stiff-flowing copolymer POM grade suitable for injection molding and extrusion. Good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance	Stiff flowing copolymer POM grade suitable for injection molding and extrusion. High impact toughness. Good tracking resistance over range of temperature

PROCESS:Injection Molding

GRADE	90S	140S
MELT INDEX g/10min (ISO1133, 190°C/ 2.16kg)	9.0	14
DENSITY (g/cm³)	1.41	1.41
TYPICAL APPLICATIONS	Wide range of plumbing products, camera gears and toys	Precision parts and thin-walled moldings, fuel systems parts, Zippers
CHARACTERISTICS	General purpose standard injection molding grade. High rigidity, tough and hardness	Easy flowing Injection molding type for precision molded parts and thin-walled molded parts with high rigidity. High toughness and hardness

PROCESS:Injection Molding

GRADE	280S	460S
MELT INDEX g/10min (ISO1133, 190°C/ 2.16kg)	27	45
DENSITY (g/cm³)	1.41	1.41
TYPICAL APPLICATIONS	Complicated precision parts, thin-walled moldings multicavity molded goods like gears, sprinkler systems and shower heads	Complicated, thin-walled precision parts, water flow meter
CHARACTERISTICS	Very easy flowing injection molding grade. High rigidity and hardness	Extremely easy flowing injection molding grade for thin-walled precision molded parts with intricate flow-path-wall thickness relation. Permits processing at reduced temperature and shorter cycle times

SABITAL™ POM COMPOUND

PROCESS:Injection Molding

GRADE	90GV10	90GV20
MELT INDEX cm^3/10min (ISO1133, 190°C/ 2.16kg)	4.5	2.5
DENSITY (g/cm^3)	1.48	1.57
TYPICAL APPLICATIONS	Molded parts requiring high strength, stiffness, hardness and wear resistance	
CHARACTERISTICS	Good flow and combination of strength,stiffness. Good Dimensional Stability	Moderate flow with higher strength, stiffness, sardness and high HDT. Good dimensional stability

PROCESS:Injection Molding

GRADE	90GV30
MELT INDEX cm^3/10min (ISO1133, 190°C/ 2.16kg)	3.0
DENSITY (g/cm^3)	1.60
TYPICAL APPLICATIONS	Molded parts requiring high strength, tstiffness, hardness and wear resistance
CHARACTERISTICS	Combination of very high strength, very high stiffness, arhdness and high HDT. Good dimensional stability

PMMA (POLYMETHYL METHACRYLATE)

PROCESS:Extrusion, Molding, Thermoforming

GRADE	P15OE	17OP
MELT INDEX (g/min) (ISO1133, 230°C/ 3.8kg)	1.5	1.7
DENSITY (g/cm³)	1.19	1.19
TYPICAL APPLICATIONS	Used in monitor LGP (Light Guide Plate) e.g. TVs and LCDs	
CHARACTERISTICS	An optical LGP extrusion grade an optical extrusion grade characterized by low foreign-matter account (MRC test method) and low UV absorbance (<70 ppm)	

PROCESS:Extrusion, Molding, Thermoforming

GRADE	20HR	P20MH
MELT INDEX (g/min) (ISO1133, 230°C/ 3.8kg)	2.0	2.0
DENSITY (g/cm³)	1.19	1.19
TYPICAL APPLICATIONS	Heat resistance grade used for e.g. tail light	
CHARACTERISTICS	Heat resistance grade, characterized by high temperature of deflection under load (≥98°C) and high Vicat softening temp (≥105°C) is a standard PMMA grade is largely divided in to extrusion and injection molding purpose	

PROCESS:Extrusion, Molding, Thermoforming

GRADE	23SP
MELT INDEX (g/min) (ISO1133, 230°C/ 3.8kg)	2.3
DENSITY (g/cm³)	1.19
TYPICAL APPLICATIONS	Used for sheet extrusion with a wide range usage out door, e.g. signage
CHARACTERISTICS	Special extrusion grade. The balance of melt flow rate and temperature of deflection under load is convenient for extrusion

PROCESS:Injection Molding

GRADE	140HF
MELT INDEX (g/min) (ISO1133, 230°C/ 3.8kg)	14
DENSITY (g/cm³)	1.19
TYPICAL APPLICATIONS	Used for injection molding applications such as cups and salad bowl
CHARACTERISTICS	Easy flowing grade for Injection molding with high flow. Good moldability

PA6 (Polyamide 6)

PROCESS:Extrusion,Molding,Spinning,Coating

GRADE	S27	S32
Relative Viscosity	2.7	3.2
Water Content (Wt %)	≤0.06%	≤0.06%
TYPICAL APPLICATIONS	Plastics Compounding, Paper coating, High Tenacity monofilament/yarn.	Plastics Compounding, Paper coating and barrier film, High Tenacity filament for fishing nets/tyre cord.
CHARACTERISTICS	Low Viscosity, Contains no lubrication.	Medium Viscosity, Contains no lubrication, Good strength and barrier properties.

TRUCIRCLE™ PCR (Post Consumer Recycled Resin)

PROCESS:injection molding

GRADE	T2BX2500UV	R9453V
Izod Impact, J/m (ASTM D 256, notched, 23°C)	400	10
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	95	720
TYPICAL APPLICATIONS	Key Board, mouse , headband, etc. consumer goods housing	Charger , Adaptor , electrical enclosures, etc.
CHARACTERISTICS	XENOY™ PC/PET blend with good flow and impact balance, good chemical resistance, intended for various enclosure and housing application. Contains 20% recycled Ocean bound plastic.	LEXAN™ R9453V Polycarbonate (PC) is a non-filled, non-chlorine and non-brominate flame retardant resin for general purpose, which contains 30% postconsumer recycled PC. This resin is of UL-94 V0 rating and for various injection molding applications. Limited availability and restricted color only.

PROCESS:injection molding

GRADE	T3RCY4000
Izod Impact, J/m (ASTM D 256, notched, 23°C)	25
HDT, °C (ASTM D 648, 1.82 MPa, 3.2mm, unannealed)	500
TYPICAL APPLICATIONS	Documment handling, game player, electrical housing
CHARACTERISTICS	CYCOLOY™ T3RCY4000 resin is an injection moldable, flame retardant PC/ABS blend free of chlorinated or brominated flame resistant additives, which contains 30% post consumer recycled PC. CYCOLOY™ T3RCY4000 resin has excellent flow and balanced impact properties and is available in various color options. It is an ideal candidate for a wide variety of different applications.

BR (POLYBUTADIENE RUBBER)

PROCESS:Extrusion Molding Calendering

GRADE	4010
MV ML(1+4) @100°C	40+/- 5
CIS 1,4 (%)	96 Min
APPLICATIONS	• Tire tread, sidewall and carcass conveyor belt coverings • Shoe sole, hoses and tube covers • Mechanical and sporting goods
CHARACTERISTICS	Low Mooney grade generally used in blends with other elastomers and is designed for • Good abrasion resistance • Excellent flex cracking resilience • Good low temperature properties • Low cold flow property • Excellent filler dispersion and shorter mixing cycles • Low die - swell and good dimensional control

PROCESS:Extrusion Molding Calendering

GRADE	4610
MV ML(1+4) @100°C	46+/- 5
CIS 1,4 (%)	96 Min
APPLICATIONS	• Tire tread, sidewall and carcass conveyor belt coverings • Shoe sole, hoses and tube covers • Mechanical and sporting goods
CHARACTERISTICS	Medium Mooney grade generally used in blend with other elastomers and is designed for • Excellent abrasion resistance • Excellent flex cracking resistance • Excellent resilience • Good low temperature properties • Low rolling resistance

PROCESS:Extrusion Molding Calendering

GRADE	5510
MV ML(1+4) @100°C	55 +/- 5
CIS 1,4 (%)	96 Min
APPLICATIONS	• Tire tread, sidewall and carcass conveyor belt coverings • Shoe sole, hoses and tube covers • Mechanical and sporting goods
CHARACTERISTICS	High Mooney grade generally used in blend with other elastomers and is designed for • Excellent abrasion resistance • Excellent flex cracking resistance • Excellent resilience • Good low temperature properties • Low rolling resistance

PROCESS:Extrusion Molding Calendering

GRADE	4510
MV ML(1+4) @100°C	45 +/- 5
CIS 1,4 (%)	96 Min
APPLICATIONS	• Tire tread, sidewall and carcass conveyor belt coverings • Shoe sole, hoses and tube covers • Mechanical and sporting goods
CHARACTERISTICS	Medium Mooney grade generally used in blends with other elastomer and is designed for • Good abrasion resistance • Excellent resilience and flex-cracking resistance • Good low temperature properties • Low cold flow tendency • Good processibility • Excellent filler dispersion and short mixing time

EPDM
(ETHYLENE PROPYLENE DIENE RUBBER)

PROCESS:Extrusion Molding

GRADE	756	855
MV ML(1+4) @100°C	72	80
ENB%	5.0	5.2
C2%	69	55
APPLICATIONS	Auto coolant/air hose, building profiles, industrial hoses, weather seals, wire & cable, TPV	Automotive weatherseals, auto coolant / air hoses, industrial gaskets and O rings for pipes/ hoses, and washing machine gasket, TPV
CHARACTERISTICS	Exhibits smooth and fast extrusion with tensile strength, compression set, and flexibility	Fast mixing, extrusion, molding, and cure rate with good compression set properties at low and high temperature

PROCESS:Extrusion Molding

GRADE	657
MV ML(1+4) @100°C	60
ENB%	5.0
C2%	73
APPLICATIONS	Extruded profiles, Automotive weatherseals, gaskets and seals, low voltage wires and cables insulation, TPV
CHARACTERISTICS	Excellent processibility; mixing, mill handling, tensile strength, tear strength, compression set, and flexibility

PROCESS:Molding

GRADE	245
MV ML(1+4) @100°C	25
ENB%	4.5
C2%	50
APPLICATIONS	Brake parts, molded foam sheets, precision seals, electrical connectors, gaskets, and hose mandrels, shoe sole
CHARACTERISTICS	Fast cure rate and high cure state with good low temperature flexibility and compression set properties

PROCESS:Calendaring

GRADE	626
MV ML(1+4) @100°C	67
ENB%	2.8
C2%	69
APPLICATIONS	Sheets, water management liners, and roof membranes, shoe sole
CHARACTERISTICS	Good calenderability, mixing, tensile strength, compression set, and flexibility