

# SABIC SOLUTION FOR CROSS LAMINATED TARPAULIN



## CHALLENGES IN THE INDUSTRY

- Excellent sealing performance of sealing layer is needed for two film bonding
- Good processability to increase
   productivity
- Stronger thermomechanical bonding of two or more films
- Competition from HDPE raffia tarpaulin



## PROCESS STEPS

**Step 1:** Co-Extruded Blown Film - A-B-C structure - Molecular orientation in machine direction. This is a three-layer film in which SABIC® COHERE™ 8170D is used in sealing layer.

**Step 2:** Film bubble cut at 45° angle.

**Step 3:** Two or four layers of the spiral cut films with orientation at opposite angles are laminated together.

GRADE	Melt Index (g/10min)	Density (g/cm³)	FEATURES
SABIC <sup>®</sup> COHERE™ 8170D	1.0	0.868	Excellent sealing ,low SIT and dart impact resistance
SABIC <sup>®</sup> SUPEER™ 8115	1.0	0.915	Excellent mechanical strength and processability
SABIC <sup>®</sup> LLDPE 118NJ	1.0	0.918	Very good mechanical strength in tensile and puncture resistance
SABIC <sup>®</sup> HDPE F00952	0.05 9 (MI 21)	0.952	Excellent processability and mechanical strength
SABIC <sup>®</sup> HDPE F01552	0.15 16 (MI21)	0.952	Excellent processability & drawdown properties
SABIC <sup>®</sup> HDPE F00851	0.3 (MI5) 9 (MI21)	0.952	Excellent processability, high film strength and rigidity

## PRODUCT OFFERING



# SABIC SOLUTION FOR CROSS LAMINATED TARPAULIN

### VALUE PROPOSITION

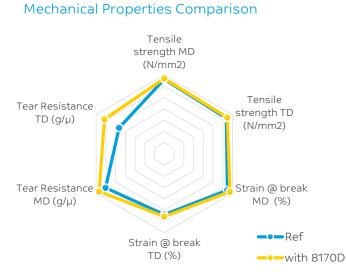
FEATURES	BENEFITS
Superior sealing performance	<ul> <li>Lower SIT</li> <li>Excellent sealing properties</li> <li>Superior bonding of two / more films</li> </ul>
Excellent Mechanical properties	<ul> <li>Better tensile strength, elongation and tear resistance.</li> <li>Balanced tear resistance in MD &amp; TD</li> <li>Very good Dart Impact Strength</li> </ul>

#### FORMULATION GUIDLINE FOR 3 LAYERS BLOWN FILM \*

Skin	SABIC <sup>®</sup> SUPEER™ 8115 + SABIC <sup>®</sup> LLDPE 118NJ
Core	SABIC® HDPE F00952 / SABIC® HDPE F01552 / F00851 + SABIC® LLDPE 118NJ
Sealing	SABIC <sup>®</sup> LLDPE 118NJ + COHERE 8170D

\* Above formulation is for guideline only. It may change from customer to customer depending on the property requirement.

Mechanical properties of cross-laminated tarpaulin sample with 8170D in sealing layer in comparison with reference tarpaulin sample:



#### Applications of Cross laminated tarpaulin:

- Transportation and Industrial applications
- Pond Liner / Pond cover
- Drying of Agriculture products
- Grain or Silage Cover
- Green house application
- Temporary shelter

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