



LUTENE[®] XL2810BK

Semi-conductive

Applications

- Cross-linkable semi-conductive compound for conductor and bonded insulation shielding of medium voltage power cables with rated voltage up to 35kV (High viscosity version of XL2808BK)

Description

- LUTENE[®] XL2810BK has an excellent electrical properties and assists in obtaining a minimum shrinkback on aluminum conductor, especially solid conductor.
- LUTENE[®] XL2810BK is specifically developed to provide a smooth surface yielding a more perfect interface between the extruded shield and the insulation.
- LUTENE[®] XL2810BK has stable volume resistivity characteristics at elevated temperatures and is formulated with a polymer system that has demonstrated compatibility with copper conductor.

Characteristics

- ① Excellent Electrical Property
- ② Excellent Physical and Thermal Property
- ③ Excellent Surface Smoothness

Specification

- LUTENE[®] XL2810BK meets the property requirement of the following material specifications.
 - ① AEIC CS8
 - ② ICEA S-94-649
 - ③ IEC 60502
 - ④ BS 6622

Package

- Standard package : 600kg Carton Box
- Other package to customer's needs are also available.

For additional sales, order and technical assistance

Revised : 12/05/2016

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Processing information

- LUTENE[®] XL2810BK provides excellent surface finish and outstanding output rates over a broad range of extrusion conditions. For optimum results, use melt extrusion temperatures in the suggested range of 90 to 115°C. Specific machine settings will depend on the extruder design and must be established through conventional practices.
- Hopper drying at 40~60°C for 4 hours before extrusion is recommended to remove moisture.

Typical properties

Characteristics	Test Method	Test Condition	Unit	Value
Physical				
Density, Base Resin	ASTM D1505	23°C	g/cm ³	1.13
Tensile Strength	ASTM D638	200mm/min	Mpa	> 12.5
Elongation at Break	ASTM D638	200mm/min	%	> 200
Tensile Strength Retention after	ASTM D638	135°C, 168hrs	%	> 85
Elongation Retention after	ASTM D638	135°C, 168hrs	%	> 85
Low Temperature Brittleness	ASTM D746	-	°C	-25°C no crack
Moisture Content	Karl Fischer	-	ppm	< 1,000
Electrical				
DC Volume Resistivity	ASTM D991	23°C	Ω·cm	<100
	ASTM D991	90°C	Ω·cm	<1,000

* Measured on compression molded specimen. Cure times were 15min at 180°C

** NOTE : Values given above should only be used as a guide and should not be considered as a firm specification or guarantee.

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