



LUTENE[®] XL2902BK

Semi-conductive

Applications

- Excellent-smoothness extra clean semi-conductive compound for conductor and bonded insulation shielding of high and extra high voltage power cable

Description

- LUTENE[®] XL2902BK is a cross-linkable semi-conductive shielding compound for conductor and bonded insulation shielding of high and extra high voltage power cables.
- LUTENE[®] XL2902BK is compatible with both copper and aluminum conductors. LUTENE[®] XL2902BK was specifically developed to provide a super-smoothness surface yielding a more perfect interface between extruded shield and the insulation. As a result, significantly improved cable performance can be expected.
- LUTENE[®] XL2902BK has stable volume resistivity characteristics at elevated temperature.

Characteristics

- ① Excellent Surface Smoothness
- ② Excellent Electrical Properties
- ③ Excellent Physical and Thermal Properties
- ④ Long-run Extrusion without Scorch
- ⑤ Contaminant Free

Specification

- LUTENE[®] XL2902BK meets the property requirement of the following material specifications.
 - ① AEIC CS8
 - ② AEIC CS7-96
 - ③ IEC 60502, 60840, 62067
 - ④ ICEA S-94-649, S-66-524 / NEMA WC74

Package

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

For additional sales, order and technical assistance

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Head office PO Division, LG Chem Ltd.

Yeoui-do P.O.Box 672, 21st floor LG Twin Tower,
Yeoui-daero 128, Yeongdeungpo-gu Seoul, Korea.
Tel. 82-2-3773-3932,6613

PO. TS team PO.Tech Center

188, Munji-ro, Yuseong-gu,, Daejeon, 34122, Korea
Tel. 82-42-722-5055

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Processing information

- LUTENE[®] XL2902BK 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	> 14.7
Elongation at Break	ASTM D638	200mm/min	%	> 160
Tensile Strength Retention after	ASTM D638	135 °C, 168hr	%	> 90
Elongation Retention after	ASTM D638	135 °C, 168hr	%	> 90
Low Temperature Brittleness	ASTM D746	-	°C	- 40 °C No crack
Moisture Content	Karl Fischer	max. 1000	ppm	< 500
Electrical				
DC Volume Resistivity	ASTM D991	23 °C	Ω·cm	< 50
	ASTM D991	90 °C	Ω·cm	< 300

* 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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