



LUTENE[®] XL2700BK TR

Semi-conductive

Applications

- Cross-linkable, easy strippable semi-conductive insulation shielding compound for medium voltage power cables with rated voltage up to 35kV

Description

- LUTENE[®] XL2700BK TR was specially designed cross-linkable semi-conductive compound for easy strippable insulation shielding of medium and high voltage power cable.
- LUTENE[®] XL2700BK TR provides an excellent stripping property, lower and consistent stripping force over a wide temperature range without tearing, leaving a clean insulation surface.
- LUTENE[®] XL2700BK TR is recommended for use in conjunction with XL8080NTS (Cross-linked polyethylene compound) and XL8080TR (Tree-retardant cross-linked polyethylene compound).

Characteristics

- ① Excellent Surface Smoothness
- ② Excellent Electrical Properties
- ③ Outstanding Strippability

Specification

- LUTENE[®] XL2700BK TR meets the property requirement of the following material specifications.
 - ① AEIC CS8
 - ② ICEA S-94-649, S-93-639 / NEMA WC74
 - ③ IEC 60502
 - ④ CENELEC HD620
 - ⑤ 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

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[®] XL2700BK TR requires melting temperatures of approximately 90 to 115 °C for best result.
- Specific machine settings will depend on the extruder design and must be established through conventional practices.
- We recommend not to use hopper dryer with LUTENE[®] XL2700BK TR to avoid fusion at hopper feed section. But when necessary, drying should be done at max. 40 °C with dehumidified air under agitation.

Typical properties

Characteristics	Test Method	Test Condition	Unit	Value
Physical				
Density, Base Resin	ASTM D1505	23 °C	g/cm ³	1.16
Tensile Strength	ASTM D638	200mm/min	Mpa	> 12.5
Elongation at Break	ASTM D638	200mm/min	%	> 250
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	max. 1000	ppm	< 1,000
Electrical				
DC Volume Resistivity	ASTM D991	23 °C	Ω·cm	<100
	ASTM D991	90 °C	Ω·cm	<1,000
Other				
Stripping Force at Cable ¹⁾	ASTM D903	-	N/12.7mm Width	3.5 ~ 7.0

1) Stripping Force at cable values are typical for dry cure at room temp. Values will vary with cable size, insulation type, type of cure, temp., speed of test, etc.

* 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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