Lutene® XL2802BK

Polyethylene

LG Chem Ltd.

Message:

Applications:
Excellent-smoothness extra clean semiconductive compound for conductor and bonded insulation shielding of high voltage power cable.
Performance:
Excellent Surface Smoothness
Excellent Electrical Properties - Excellent Physical and Thermal Properties
Long-run Extrusion without Scorch
Description:
LUTENE® XL2802BK is a crosslinkable semiconductive shielding compound for conductor and bonded insulation shielding of high voltage power cables. LUTENE® XL2802BK is compatible with both copper and aluminum conductors. LUTENE® XL2802BK was specifically developed to provide a excellent-smoothness surface yielding a more perfect interface between extruded shield and the insulation. As a result, significantly improved cable performance can be expected. LUTENE® XL2802BK has stable volume resistivity charateristics at elevated temperature.

General Information	
Features	Crosslinkable Good Electrical Properties Good Surface Finish Semi Conductive
Uses	High Voltage Insulation Insulation Shield
Agency Ratings	AEIC CS7-93 AEIC CS8-00 ICEA S-66-524 ICEA S-94-649 IEC 60502 IEC 60840

Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm³	ASTM D1505
Environmental Stress-Cracking Resistance	> 200	hr	ASTM D1693
Moisture Content	< 500	ppm	Karl Fisher
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield)	> 14.7	MPa	ASTM D638
Tensile Elongation [2] (Break)	> 180	%	ASTM D638
Aging	**Nominal Value**	**Unit**	**Test Method**
Retention of Tensile Elongation [3]	> 85	ppm	ASTM D638
Retention of Tensile Strength [4]	> 90	%	ASTM D638
Thermal	**Nominal Value**	**Unit**	**Test Method**

Brittleness Temperature	< -50.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ICEA S-66-524
23°C	< 1.0E+2	ohms·cm	
90°C	< 3.0E+2	ohms·cm	
Extrusion	Nominal Value	Unit	
Drying Temperature	60.0 to 70.0	°C	
Drying Time	4.0	hr	
Melt Temperature	100 to 125	°C	
NOTE			
1.	200 mm/min		
2.	200 mm/min		
3.	135°C, 168 Hr		
4.	135°C, 168 Hr		

Recommended distributors for this material

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