

Lutene® XL2902BK

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 - Contaminant Free

Description:

LUTENE® XL2902BK is a crosslinkable semiconductive 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.

General Information			
Features	Clean/High Purity		
	Crosslinkable		
	Good Electrical Properties		
	Good Surface Finish		
	Semi Conductive		
Uses	Extra High Voltage Insulation		
	Insulation Shield		
	Medium Voltage Insulation		
Agency Ratings	AEIC CS7-93		
	AEIC CS8-00		
	ICEA S-66-524		
	ICEA S-94-649		
	IEC 60480		
	IEC 60502		
	IEC 62067		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	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)	> 160	%	ASTM D638
Aging	Nominal Value	Unit	Test Method

Retention of Tensile Elongation ³	> 90	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	< 50	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.	121°C, 168 Hr		
4.	121°C, 168 Hr		

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