

# Lutene® XL2700BK TR

Polyethylene

LG Chem Ltd.

## Message:

### Applications:

Crosslinkable, easy strippable semiconductive insulation shielding compound for medium voltage power cables with rated voltage up to 35kV.

### Description:

LUTENE® XL2700BK TR was specially designed crosslinkable 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. Especially LUTENE® XL2700BK TR has an excellent tree retardant property.

General Information	
Features	Crosslinkable
	Semi Conductive
	Strippable
Uses	High Voltage Insulation
	Insulation Shield
	Medium Voltage Insulation
Agency Ratings	AEIC CS8-00
	CENELEC HD 605 S2:2008
	CENELEC HD 620 S2:2010
	ICEA S-93-639
	ICEA S-94-649
	IEC 60502
	NEMA WC-74

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm <sup>3</sup>	ASTM D1505
Moisture Content	< 500	ppm	Karl Fisher
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	14.7	MPa	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Retention of Tensile Elongation <sup>1</sup>	> 90	ppm	ASTM D638
Retention of Tensile Strength <sup>2</sup>	> 90	%	ASTM D638
Hot Creep			ICEA T-28-562
Hot	< 100	%	
Set	< 5.0	%	
Ionic Content - Metal	< 1000	%	Internal Method
Stripping Force (1.27 cm) <sup>3</sup>	3500 to 7000	g	

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -50.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			ASTM D991
23°C	< 1.0E+2	ohms·cm	
90°C	< 1.0E+3	ohms·cm	
Extrusion	Nominal Value	Unit	
Drying Temperature	40.0	°C	
Melt Temperature	80.0 to 120	°C	
NOTE			
1.	121°C, 168 Hr		
2.	121°C, 168 Hr		
3.	kg/12.7 mm		

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