

# Lutene® XL8080NTS

Polyethylene

LG Chem Ltd.

## Message:

### Applications:

Crosslinkable polyethylene compound for medium voltage power cable Insulation with rated voltage up to 35kV.

### Description:

LUTENE® XL8080NTS is a standard version having excellent electrical properties for medium voltage power cable insulation and has a very low level of contamination.

LUTENE® XL8080NTS provides excellent surface finish and outstanding output rates over a broad range of conditions

General Information			
Features	Crosslinkable		
	Good Electrical Properties		
Uses	Insulation Shield		
	Medium Voltage Insulation		
Agency Ratings	AEIC CS8		
	ICEA S-94-649		
	IEC 60502		
	KSC 3611		
Physical	Nominal Value	Unit	Test Method
Density <sup>1</sup>	0.920	g/cm <sup>3</sup>	ASTM D1505
Degree of Crosslinking	> 80	%	ASTM D2765A
Retention of Tensile Elongation <sup>2</sup>	> 95	ppm	ASTM D638
Retention of Tensile Strength <sup>3</sup>	> 95	%	ASTM D638
Hot Set <sup>4</sup>			IEC 60811-2-1
Elongation under Load	< 100	%	
Permanent Deformation	< 10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>5</sup> (Yield)	19.6	MPa	ASTM D638
Tensile Elongation <sup>6</sup> (Break)	500	%	ASTM D638
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	> 1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	> 22	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.30		ASTM D150
Dissipation Factor (1 MHz)	3.0E-4		ASTM D150
Extrusion	Nominal Value	Unit	
Melt Temperature	120 to 130	°C	
NOTE			

1.	Base Rasin
2.	135°C, 168 Hr
3.	135°C, 168 Hr
4.	200?, 0.2 Mpa
5.	250 mm/min
6.	250 mm/min

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