

# Lutene® XL8080UC

Polyethylene

LG Chem Ltd.

## Message:

### Description

LUTENE XL8080UC is a superior cleanliness version for high voltage power cable insulation and is designated as UC(Ultra-Clean) due to its extremely low level of contamination. LUTENE XL8080UC use a special base resin with lower melt index than well-known XL8080UC to prevent a sag in heavy walled cables.

### Applications

Extra high voltage power cable insulation

General Information			
Features	Good Surface Finish		
Uses	Cable Jacketing		
	Wire & Cable Applications		
Agency Ratings	AEIC CS5-94		
	ICEA S-66-524		
	IEC 60502		
	IEC 60840		
	KSC 3611		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm <sup>3</sup>	ASTM D1505
Degree of Crosslinking	> 80	%	ASTM D2765A
Hot Set <sup>1</sup>			IEC 60811-2-1
Elongation Under Load : 200°C	< 180	%	
Permanent Deformation : 200°C	< 15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Break)	> 19.7	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	> 500	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (135°C, 168 hr)	< 10	%	ASTM D573
Change in Ultimate Elongation in Air (135°C, 168 hr)	< 10	%	ASTM D573
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-3		ASTM D150

## NOTE

- |    |            |
|----|------------|
| 1. | 0.2 MPa    |
| 2. | 250 mm/min |
| 3. | 250 mm/min |

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