

Lutene® XL8080UCS

Polyethylene

LG Chem Ltd.

Message:

Applications:

Crosslinkable polyethylene compound for high and extra high voltage power cable Insulation with rated voltage up to 230kV.

Description:

LUTENE® XL8080UCS is a superior cleanliness version for high and extra high voltage power cable insulation and is designated as UC(Ultra-Clean) due to its extremely low level of contamination.

General Information			
Features	Clean/High Purity		
	Crosslinkable		
	Good Electrical Properties		
Uses	Extra High Voltage Insulation		
	High Voltage Insulation		
	Insulation Shield		
Agency Ratings	AEIC CS8		
	ICEA S-94-649		
	IEC 60480		
	IEC 60502		
	IEC 62067		
	KSC 3611		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.920	g/cm ³	ASTM D1505
Degree of Crosslinking	> 80	%	ASTM D2765A
Retention of Tensile Elongation ²	> 95	ppm	ASTM D638
Retention of Tensile Strength ³	> 95	%	ASTM D638
Hot Set ⁴			IEC 60811-2-1
Elongation under Load	< 100	%	
Permanent Deformation	< 10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ⁵ (Yield)	19.6	MPa	ASTM D638
Tensile Elongation ⁶ (Break)	500	%	ASTM D638
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	> 1.0E+17	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
NOTE		
1.	Base Resin	
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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

