LUTENE® XL8080UCS

XLPE

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.

Specification

- LUTENE® XL8080UCS meets the property requirement of the following material specifications.
  ① AEIC CS9
  ② AEIC CS8
  ③ KSC 3611
  ④ ICEA S-94-649
  ⑤ IEC 60502
  ⑥ IEC 60840
  ⑦ IEC 62067

Package

- Standard package : 600kg Carton Box, 1,000kg Carton Box
- Other package to customer's needs are also available.

Processing information

- LUTENE® XL8080UCS provides excellent surface finish and outstanding output rates over a broad range of extrusion conditions. When LUTENE® XL8080UCS is processed at melt temperature of 130 to 140℃, optimum results can be obtained.

LG Chem

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Typical properties

Characteristics	Test Method	Test Condition	Unit	Value
Physical				
Density, Base Resin	ISO 1183	23℃	g/㎤	**0.92**
Mechanical				
Tensile Strength at Break	ISO 527	250mm/min	kg/㎠	**> 200**
			Mpa	**> 19.7**
			psi	**> 2,844**
Elongation at Break	ISO 527	250mm/min	%	**> 500**
Tensile Strength Retension after	ISO 60811-401	135℃/168hrs	%	**> 90**
Elongation Retension after	ISO 60811-401	135℃/168hrs	%	**> 90**
Hot Set Test	IEC 60811-507	200℃, 0.2 Mpa	-	**-**
Elongation under Load			%	**< 175**
Permanent Deformation			%	**< 15**
Electrical				
Dielectric Constant	ASTM D150	1MHz	-	**2.3**
Dissipation factor	ASTM D150	1MHz		**0.0003**
DC Volume Resistivity	ISO 60093	23℃	Ω·cm	**> 10^{16}**
Dielectric Strength	IEC 60243	-	kV/mm	**> 22**
Other				
Degree of Crosslinking	ASTM D2765A	-	%	**> 80**

*** Measured on compression molded specimen**
**** NOTE : Values given above should only be used as a guide and should not be considered as a firm specification or guarantee.**

Recommended to use within shelf life which is 12months from production date under the conditions that product is stored in unopened original packages, under dry and clean conditions at temperatures between 15 ~ 25℃.
Material shelf life is affected by the storage condition and extreme conditions influence the general material quality and performance.