



LUTENE[®] XL8080NR

XLPE

Applications

- Cross-linkable polyethylene compound for low and medium voltage power cable insulation with rated voltage up to 11kV

Description

- LUTENE[®] XL8080NR is a standard version having excellent electrical properties for low and medium voltage power cable insulation.
- LUTENE[®] XL8080NR provides excellent surface finish and outstanding output rates over a broad range of conditions.

Specification

- LUTENE[®] XL8080NR meets the property requirement of the following material specifications.
 - ① AEIC CS8
 - ② ICEA S-94-649
 - ③ KSC 3611
 - ④ IEC 60502

Package

- Standard package : 550kg Carton Box, 600kg Carton Box, 1,000kg Carton Box
- Other package to customer's needs are also available.

Processing information

- LUTENE[®] XL8080NR provides excellent surface finish and outstanding output rates over a broad range of extrusion conditions. When LUTENE[®] XL8080NR is processed at melt temperature of 125 to 135°C, optimum results can be obtained.

For additional sales, order and technical assistance

Revised : 12/05/2016

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Typical properties

Characteristics	Test Method	Test Condition	Unit	Value
Physical				
Density, Base Resin	ASTM D1505	23 °C	g/cm ³	0.92
Mechanical				
Tensile Strength	ASTM D638	250mm/min	kg/cm ²	> 200
			Mpa	> 19.7
			psi	> 2,844
Elongation at Break	ASTM D638	250mm/min	%	> 500
Tensile Strength Retention after	ASTM D638	135 °C/168hrs	%	> 90
Elongation Retention after	ASTM D638	135 °C/168hrs	%	> 90
Hot Set Test	IEC 60811-2-1	200 °C, 0.2 Mpa	-	-
Elongation under Load			%	< 175
Permanent Deformation			%	< 15
Electrical				
Dielectric Constant	ASTM D150	1MHz	-	2.25
Dissipation Factor	ASTM D150	1MHz		0.0006
DC Volume Resistivity	ASTM D257	23 °C	Ω·cm	> 10¹⁶
Dielectric Strength	ASTM D149	-	kV/mm	> 22
Other				
Degree of Cross-linking	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.

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