

Borealis Superclean™ LE4244S Polyethylene Insulation Compound, Crosslinkable

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Superclean™ LE4244S is a crosslinkable natural polyethylene compound, specially designed for insulation applications. Applications: Superclean™ LE4244S is intended for insulation of XLPE High Voltage cables with rated voltages up to 220 kV. Specifications: Superclean™ LE4244S meets the applicable requirements as below when processed using sound extrusion practice and testing procedure: ANSI/ICEA 108-720-2004; AEIC CS7-93 (3rd edition); HD 632 S1; and IEC 60840. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Superclean-LE4244S-Polyethylene-Insulation-Compound-Crosslinkable.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	base resin; ISO 1183/ISO 1872-2
Water Absorption	0.020 %	0.020 %	Karl Fischer-titration
Melt Flow	0.80 g/10 min @Load 2.16 kg, Temperature 190 °C	0.80 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 3.40 MPa	<= 493 psi	after aging (168h, 135°C); IEC 60811-1-2
	>= 17.0 MPa	>= 2470 psi	250mm/min; ISO 527
Elongation at Break	>= 450 %	>= 450 %	250mm/min; ISO 527

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+6 ohm-cm	>= 1.00e+6 ohm-cm	IEC 60093
Dielectric Constant	2.3 @Frequency 50000 Hz	2.3 @Frequency 50000 Hz	IEC 60250
Dielectric Strength	>= 30.0 kV/mm @Frequency 50.0 Hz	>= 762 kV/in @Frequency 50.0 Hz	IEC 60243
Dissipation Factor	0.00030 @Frequency 50000 Hz	0.00030 @Frequency 50000 Hz	IEC 60250

Processing Properties	Metric	English	Comments
Melt Temperature	130 - 140 °C	266 - 284 °F	

Processing Properties	Metric	English	Comments
Descriptive Properties	Value	Comments	
Göttfert Elastograph (Nm)	0.60-0.80		
Hot Set Test, %	5	200°C, 0.2 MPa; IEC 60811-2-1; Permanent Deformation	
	75	200°C, 0.2 MPa; IEC 60811-2-1; Elongation under load	
Methanol Wash (ppm)	< 1000		

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