

Borealis SuperCOPO™ LH4201R Polyethylene Insulation Compound, Crosslinkable

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

SuperCOPO™ LH4201R is a crosslinkable natural polyethylene compound, specially designed for insulation applications. Applications: SuperCOPO™ LH4201R is intended for insulation of XLPE power cables with rated voltages up to 72 kV. It is developed for constructions with bonded insulation shields. Specifications: SuperCOPO™ LH4201R meets the applicable requirements as below when processed using sound extrusion practice and testing procedure: AEIC CS8; HD 620 S1, Part 1, table 2A, DIX 3 to 14; IEC 60502; and DIN VDE 0276-620. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-SuperCOPO-LH4201R-Polyethylene-Insulation-Compound-Crosslinkable.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 - 0.600 g/cc	0.0181 - 0.0217 lb/in ³	
Density	0.924 g/cc	0.0334 lb/in ³	base resin; ISO 1183/ISO 1872-2
Water Absorption	0.020 %	0.020 %	Karl Fischer-titration
Melt Flow	2.8 g/10 min @Load 2.16 kg, Temperature 190 °C	2.8 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 1133

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	>= 22.0 kV/mm @Frequency 50.0 Hz	>= 559 kV/in @Frequency 50.0 Hz	IEC 60243
Dissipation Factor	0.00050 @Frequency 50000 Hz	0.00050 @Frequency 50000 Hz	IEC 60250

Processing Properties	Metric	English	Comments
Melt Temperature	130 - 140 °C	266 - 284 °F	
Shelf Life	18.0 Month	18.0 Month	

Descriptive Properties	Value	Comments
Göttfert Elastograph (Nm)	0.59-0.74	
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)	< 500	
Monsanto ODR (dNm)	30-38	

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