Borealis LR4201R Polyethylene Insulation Compound, Crosslinkable

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LR4201R is a natural low-density crosslinkable polyethylene compound. Applications: LR4201R is intended for insulation of XLPE power cables with rated voltages up to 72 kV. Specifications: ISO 1872-PE, KHNX, 23-D022; IEC 60502; IEC 60840; NF C33-223; BS 6622; REA 50-70 (U-1) 87; AEIC CS7; ICEA S-66-524; ICEA S-94-649; ICEA S-93-639; and AEIC CS8-00 (1st edition).Information provided by Borealis AG

Order this product through the following link:
http://www.lookpolymers.com/polymer_Borealis-LR4201R-Polyethylene-Insulation-Compound-Crosslinkable.php

Physical Properties	Metric	English	Comments
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ASTM D2240
Tensile Strength at Break	>= 13.5 MPa	>= 1960 psi	after aging (168h, 136°C); ASTM D638
	15.0 MPa	2180 psi	
Elongation at Break	400 %	400 %	ASTM D638

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	DC; ASTM D257
Dielectric Constant	2.3 @Frequency 60000 Hz	2.3 @Frequency 60000 Hz	ASTM D150
Dielectric Strength	>= 22.0 kV/mm	>= 559 kV/in	ASTM D149
Dissipation Factor	0.00050 @Frequency 60000 Hz	0.00050 @Frequency 60000 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Hot Set Test, %	5	150°C, 0.2 MPa;ICEA T-28-562; Permanent Deformation
	75	150°C, 0.2 MPa;ICEA T-28-562; Elongation under load

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