

Borealis Superclean™ LE4244 Natural Crosslinkable Polyethylene for HIV Power Cable Insulation

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Wire/Cable Grade

Material Notes:

Superclean LE4244 is a natural crosslinkable polyethylene compound developed especially for the insulation of medium and high voltage cables. It provides an excellent balance of anon-staining antioxidant and peroxide in order to ensure thermal stability and ease of processing. Superclean LE4244 is developed specifically for the insulation of high voltage cables; e.g. 36-136 kV, or for corresponding electrical stresses. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Superclean-LE4244-Natural-Crosslinkable-Polyethylene-for-HIV-Power-Cable-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	Base Resin; ASTM D1928/D 1505
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	Base Resin; ISO 1133
Degree of Crosslinking	12 %	12 %	ASTM D2765

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	ASTM D2240
Tensile Strength, Yield	17.2 MPa	2500 psi	ASTM D1238
Elongation at Break	450 %	450 %	ASTM D638

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

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	2.3 @Frequency 60 Hz	2.3 @Frequency 60 Hz	ASTM D150
Dielectric Strength	>= 2.17 kV/mm	>= 55.0 kV/in	At 50 mils; ASTM D149
Dissipation Factor	0.00050 @Frequency 60 Hz	0.00050 @Frequency 60 Hz	ASTM D150

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