

Borealis Supersmooth™ LE0550 Polyethylene Insulation Compound, Crosslinkable

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Supersmooth™ LE0550 is a crosslinkable black polyethylene compound, specially designed for bonded semiconductive screen applications.

Applications: Supersmooth™ LE0550 is intended for semiconductive shielding of crosslinked HVDC solid dielectric cables. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Supersmooth-LE0550-Polyethylene-Insulation-Compound-Crosslinkable.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183/ISO 1872-2
Water Absorption	0.030 %	0.030 %	500 ppm; Karl Fischer-titration

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 4.40 MPa	<= 638 psi	after aging (240h, 135°C); IEC 60811-1-2
	>= 22.0 MPa	>= 3190 psi	25mm/min; ISO 527
Elongation at Break	380 %	380 %	25mm/min; ISO 527

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 100 ohm-cm @Temperature 23.0 °C	<= 100 ohm-cm @Temperature 73.4 °F	ISO 3915
	<= 1000 ohm-cm @Temperature 90.0 °C	<= 1000 ohm-cm @Temperature 194 °F	ISO 3915

Processing Properties	Metric	English	Comments
Processing Temperature	60.0 °C	140 °F	hopper drying (4h)
Melt Temperature	120 - 140 °C	248 - 284 °F	
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Göttfert Elastograph (Nm)	1.2	
Hot Set Test, %	0	200°C, 0.2 MPa; IEC 60811-2-1; Permanent Deformation

Descriptive Properties	25 Value	200°C, 0.2 MPa; IEC 60811-2-1; Elongation under load Comments
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