

Borealis LE0511 Polyethylene Compound, Crosslinkable, Semiconductive

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LE0511 is a crosslinkable black polyethylene compound, specially designed for strippable semi conductive screen applications.

Applications: LE0511 is intended for strippable outer semi conductive shielding of XLPE medium voltage cables with rated voltages up to 36 kV. Specifications: AEIC CS8-00 (1st edition); BS 6622; ICEA S-94-649; ICEA S-97-682; IEC 60502; NF C33-223; NF C33-226; and UTE C 33-22. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-LE0511-Polyethylene-Compound-Crosslinkable-Semiconductive.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792
Water Absorption	0.15 %	0.15 %	Karl Fischer-titration

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.0 MPa	2180 psi	25mm/min; ISO 527
Elongation at Break	300 %	300 %	25mm/min; ASTM D527

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

Processing Properties	Metric	English	Comments
Processing Temperature	40.0 °C	104 °F	drying temperature; under agitation with a dewpoint of -35°C
	280 °C	536 °F	maximum surface temperature, curing tube
Feed Temperature	>= 40.0 °C	>= 104 °F	
Melt Temperature	115 - 125 °C	239 - 257 °F	
Shelf Life	18.0 Month	18.0 Month	

Descriptive Properties	Value	Comments
Hot Set Test, %	0	200°C, 0.2 MPa; IEC 60811-2-1; Permanent Deformation

Descriptive Properties	Value	Comments
Monsanto ODR (dNm)	26-34	MPa;IEC 60811-2-1; Elongation under load

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