

Borealis LE0520 Polyethylene Compound, Crosslinkable, Semiconductive

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LE0520 is a Strippable Semi conductive Insulation Shielding for Power Cables. LE0520 is suitable for use in triple extrusion processes. Strip forces in the range of 3-6 kN/m (7-14 lbs/half inch) have been found on cables from steam or dry cure vulcanization lines. Stripping of LE0520 from the surface of the insulation is readily initiated and it continues easily over a wide range of temperatures without tearing. it leaves a clean insulation surface. Specifications ICEA S-94-649; ICEA S-97-682; BS 6622; NF C33-223; UTE C 33-223; NF C33-226; and AEIC CS8-07. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-LE0520-Polyethylene-Compound-Crosslinkable-Semiconductive.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 14.4 MPa	>= 2090 psi	ASTM D638
	16.0 MPa	2320 psi	ASTM D638
Elongation at Break	200 %	200 %	after aging 7 days @ 136°C; ASTM D638
	250 %	250 %	after aging 42 days @ 100°C

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-35.0 °C	-31.0 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Volume Resistivity	80 ohm-cm	80 ohm-cm	ASTM D991
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	400 ohm-cm	400 ohm-cm	ASTM D991
	@Temperature 90.0 °C	@Temperature 194 °F	

Processing Properties	Metric	English	Comments
Processing Temperature	280 °C	536 °F	maximum surface temperature, curing tube
Zone 1	90.0 °C	194 °F	
Zone 2	100 °C	212 °F	

Zone 3 Processing Properties	115 °C Metric	239 °F English	Comments
Zone 4	120 °C	248 °F	
Die Temperature	120 °C	248 °F	
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Hot Set Test, %	0	200°C, 0.2 MPa; IEC 60811-2-1; Permanent Deformation
	25	200°C, 0.2 MPa; IEC 60811-2-1; Elongation under load

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