

Borealis LE7710 Polyethylene Compound, Semiconductive, Thermoplastic

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LE7710 is a thermoplastic black polyethylene compound, specially designed for semiconductive screen applications. Applications: LE7710 is intended for semiconductive applications in medium voltage cables. Specifications: BS 6622; IEC 60502; IEC 60840; ISO 1872-E/BA, KHXY, 23-G200, C40; DIN VDE 0276-632; NEMA WC 5-1992/ ICEA S-61-402; and NEMA WC 74-2000/ ICEA S-93-639. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-LE7710-Polyethylene-Compound-Semiconductive-Thermoplastic.php

Physical Properties	Metric	English	Comments
Density	1.135 g/cc	0.04100 lb/in ³	ISO 1183/ISO 1872-2
Water Absorption	0.060 %	0.060 %	Karl Fischer-titration

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 2.20 MPa	<= 319 psi	after aging (168h, 135°C); IEC 60811-1-2
	11.0 MPa	1600 psi	25mm/min; ISO 527
Elongation at Break	200 %	200 %	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	DC; ISO 3915
	<= 1000 ohm-cm @Temperature 90.0 °C	<= 1000 ohm-cm @Temperature 194 °F	DC; ISO 3915

Processing Properties	Metric	English	Comments
Processing Temperature	60.0 °C	140 °F	hopper drying; 4h
Melt Temperature	120 - 185 °C	248 - 365 °F	
Shelf Life	18.0 Month	18.0 Month	

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