

Borealis LE0592 Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LE0592 is a crosslinkable black polyethylene compound, specially designed for bonded semi conductive screen applications. Applications: LE0592 is intended for semi conductive applications in XLPE medium and high voltage cables. It can be used as inner and outer semicon for bonded constructions and as inner semicon for strippable constructions. Specifications: AEIC CS7; AEIC CS8; BS 6622; DIN VDE 0276-620; DIN VDE 0276-263; HD 620 S1; HD 632 S1; IEC 60502; IEC 60840; ISO 1872-E/BA, KHXY, 23-G200, C40; NF C33-223; NF C33-226; UTE C 33-223; UTE C 33-223; and ICEA S-93-639. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-LE0592-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	1.135 g/cc	0.04100 lb/in ³	ISO 1183/ISO 1872-2
Water Absorption	0.030 %	0.030 %	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	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	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
Melt Temperature	120 - 140 °C	248 - 284 °F	
Shelf Life	18.0 Month	18.0 Month	

Descriptive Properties	Value	Comments
Göttfert Elastograph (Nm)	1.14-1.38	
Hot Set Test, %		200°C, 0.2 MPa; IEC 60811-2-1; Permanent Deformation

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

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