

Borealis Supersmooth™ LE0592S Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Supersmooth™ LE0592S is a crosslinkable black polyethylene compound, specially designed for bonded semiconductive screen applications. Supersmooth™ LE0592S is intended for semiconductive applications in XLPE high voltage and extra high voltage cables. It can be used as inner and outer semicon for bonded constructions and as inner semicon for strippable constructions. Specifications: Supersmooth™ LE0592S meets the applicable requirements as below when processed using sound extrusion practice and testing procedure: AEIC CS8-00 (1st edition); AEIC CS7-93 (3rd edition); BS 6622; DIN VDE 0276-620; HD 620 S1; HD 632 S1; IEC 60502; IEC 60840; ISO 1872-E/BA, KHXY, 23-G200, C40; NF C33-223; NF C33-226; and UTE C 33-223. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Supersmooth-LE0592S-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	50.0 °C	122 °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)	1.14-1.38	

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

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