

Borealis LE0574 Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LE0574 is a thermoplastic black polyethylene compound, specially designed for strippable semi conductive screen applications. It can be used in thermoplastic form or crosslinked via a grafting process. Applications: LE0574 is intended for strippable semi conductive shield for silane crosslinkable medium voltage cables with rated voltages up to 36 kV. Specifications: BS 6622; IEC 60502; ISO 1872-EVAC, KHYX, 40-G090, C35; and NF C33-223. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-LE0574-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183/ISO 1872-2
Water Absorption	0.050 %	0.050 %	Karl Fischer-titration
Melt Flow	10 g/10 min @Load 21.6 kg, Temperature 190 °C	10 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	56	56	1s; ISO 868
Tensile Strength at Break	12.0 MPa	1740 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
Zone 1	170 °C	338 °F	
Zone 2	180 °C	356 °F	
Zone 3	185 °C	365 °F	
Zone 4	190 °C	374 °F	
Zone 5	190 °C	374 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	190 °C	374 °F	
Head Temperature	190 °C	374 °F	
Shelf Life	18.0 Month	18.0 Month	

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