

Borealis LE1169 Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

LE1169 is a low loss LDPE compound for coaxial cables. LE1169 contains a special type of antioxidant, which does not adversely affect the electrical properties. Applications: coaxial cables Specifications: LE1169 meets the applicable requirements as below when processed using sound extrusion practice and testing procedure: ASTM D1248 Type I, Class A, Category 3, Grade E1, E2, E3; BS 6234: Type 2; and ISO 1872-PE, KHN, 23-D022. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-LE1169-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ISO 1183
Melt Flow	2.2 g/10 min @Load 2.16 kg, Temperature 190 °C	2.2 g/10 min @Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	1s; ISO 868
Tensile Strength at Break	13.0 MPa	1890 psi	50mm/min; ISO 527
Elongation at Break	600 %	600 %	50mm/min; ISO 527

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Volume Resistivity	<= 1.00e+6 ohm-cm	<= 1.00e+6 ohm-cm	IEC 60093
Dielectric Constant	2.28 @Frequency 1.00e+6 Hz	2.28 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	22.0 kV/mm	559 kV/in	IEC 60243
Dissipation Factor	0.000090 @Frequency 1.00e+6 Hz	0.000090 @Frequency 1.00e+6 Hz	IEC 60250

Processing Properties	Metric	English	Comments
Melt Temperature			

Processing Properties	160 - 190 °C Metric	320 - 374 °F English	Comments
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