

Borealis HE3366 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

HE3366 is a HDPE compound for solid insulation of telephone singles with high extrusion speed. HE3366 is designed as insulation for petroleum filled telephone cables. It is also suitable as outer skin in "foam-skin" constructions. Specifications: ISO 1872-PE; KGHN; 45-D006; ASTM D1248 Type III, Class A, Category 4, Grade E8, E9; the following cable material standards: EN 50290-2-23; DIN VDE 0207, 2Y11; IEC 60708; EN 50407; and DIN VDE 0818. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HE3366-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in ³	ISO 1183/ISO 1872-2
Environmental Stress Crack Resistance	>= 48 hour @Temperature 50.0 °C	>= 48 hour @Temperature 122 °F	Igepal 10%; F20; IEC 60811-4-1/B
Oxidative Induction Time (OIT)	50 min @Temperature 200 °C	50 min @Temperature 392 °F	IEC 60811-4-2/B
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	1s; ISO 868
Tensile Strength at Break	23.0 MPa	3340 psi	ISO 527
Elongation at Break	600 %	600 %	ISO 527-2

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	2.33 @Frequency 1.00e+6 Hz	2.33 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	22.0 kV/mm	559 kV/in	IEC 60243

Electrical Properties Dissipation Factor	0.000060 Metric	0.000060 English	Comments IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Processing Temperature	100 - 120 °C	212 - 248 °F	conductor preheating temperature
Melt Temperature	220 - 250 °C	428 - 482 °F	
Die Cooling Temperature	50.0 °C	122 °F	water cooling

Descriptive Properties	Value	Comments
Petroleum Jelly Absorption (%)	5	IEC 60811-4-2

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