

Borealis HE4872 High Density Polyethylene

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

Material Notes:

HE4872 is a HDPE compound for solid insulation of symmetric data cable at high extrusion speed. Applications: high frequency data transmission cables, outer skin of foam-skin constructions. Specifications: ISO 1872-PE, KGHN, 45-D006; ASTM D1248 Type III, Class A, Category 4, Grade E8, E9; EN 50290-2-23; IEC 61156; and EN 50288. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HE4872-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	>= 80 hour @Temperature 50.0 °C	>= 80 hour @Temperature 122 °F	Igepal 10%; F20; IEC 60811-4-1/B
Oxidative Induction Time (OIT)	>= 60 min @Temperature 200 °C	>= 60 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	58	58	15s; ISO 868
Tensile Strength at Break	20.0 MPa	2900 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
Dissipation Factor	0.000070	0.000070	IEC 60250

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	30.0 - 50.0 °C	86.0 - 122 °F	water cooling

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China