

Borealis Borcell™ HE1346 High Density Polyethylene

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

Material Notes:

Borcell™ HE1346 is a fully formulated compound for chemical foamed telesingles. Borcell™ HE1346 is a high-density polyethylene compound containing chemical blowing agent. Applications Borcell™ HE1346 is intended for: Foam or foam-skin insulation for telephone singles with typical expansion of 35-40%. Borcell™ HE1346 meets the following material classification: ISO 1872-PE, KEGHN, 45-D006 1 and ASTM D1248 Type III, Class A, Category 4 1 The following cable material standards are met by Borcell HE1346: EN 50290-2-23, DIN VDE 0207, 2Y11. Cables manufactured with Borcell™ HE1346 using sound extrusion practice normally comply with the following cable product standards: IEC 60708 and EN 50407.1 Refers to Base Resin Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borcell-HE1346-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Bulk Density	0.500 - 0.600 g/cc	0.0181 - 0.0217 lb/in ³	
Density	0.943 g/cc	0.0341 lb/in ³	base resin; ISO 1872-2/ISO 1183
	0.945 g/cc	0.0341 lb/in ³	compound; ISO 1872-2/ISO 1183
Thermal Stress Crack Resistance	1.50 hour @Temperature 105 °C	1.50 hour @Temperature 221 °F	IEC 60811-4-2/A
Oxidative Induction Time (OIT)	>= 50 min @Temperature 200 °C	>= 50 min @Temperature 392 °F	IEC 60811-4-2/B

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	13.0 MPa	1890 psi	50mm/min, expanded 35% insulation; IEC 60811-1-1
	23.0 MPa	3340 psi	50mm/min; ISO 527
Elongation at Break	500 %	500 %	50mm/min, 35% expanded insulation; IEC 60811-1-1
	600 %	600 %	50mm/min; ISO 527

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.33 @Frequency 1.00e+6 Hz	2.33 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.00040 @Frequency 1.00e+6 Hz	0.00040 @Frequency 1.00e+6 Hz	IEC 60250

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	110 - 140 °C	230 - 284 °F	conductor preheating temperature
Zone 1	155 °C	311 °F	
Zone 2	170 °C	338 °F	
Zone 3	185 °C	365 °F	
Zone 4	195 °C	383 °F	
Die Temperature	195 °C	383 °F	
Die Cooling Temperature	50.0 °C	122 °F	cooling water

Descriptive Properties	Value	Comments
Petroleum Jelly Absorption (%)	10	IEC 60811-4-2

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