

Borealis Borcell™ HE1106 High Density Polyethylene

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

Material Notes:

Borcell™ HE1106 is a fully formulated compound for physical foamed coaxial cable insulations. It is based mainly on high density polyethylene and a nucleating agent to initiate the gas injection foaming process. Applications: Borcell™ HE1106 is designed to use as physically foamed insulation for small to medium size coaxial cable constructions (type RG) Specifications: Borcell™ HE1106 meets the following material classification: ISO 1872-PE, KEGHN, 50-D090, and ASTM D1248 Type III, Category 3. The following cable material standards are met by Borcell™ HE1106: EN 50290-2-23, typically IEC 61196. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borcell-HE1106-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ISO 1872-2/ISO 1183
Melt Flow	7.5 g/10 min @Load 5.00 kg, Temperature 140 °C	7.5 g/10 min @Load 11.0 lb, Temperature 284 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Elongation at Break	300 %	300 %	50mm/min; ISO 527

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.34 @Frequency 1.00e+6 Hz	2.34 @Frequency 1.00e+6 Hz	IEC 60250
	2.34 @Frequency 1.80e+9 Hz	2.34 @Frequency 1.80e+9 Hz	Borealis Method
Dissipation Factor	0.000060 @Frequency 1.00e+6 Hz	0.000060 @Frequency 1.00e+6 Hz	IEC 60250
	0.00010 @Frequency 1.80e+9 Hz	0.00010 @Frequency 1.80e+9 Hz	Borealis Method

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