

Borealis Borcell™ HE1123 High Density Polyethylene

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

Material Notes:

Borcell™ HE1123 is a high density polyethylene compound intended for the insulation of radio frequency coaxial cables. Borcell™ HE1123 is designed to give the lowest possible cable attenuation by the selection of electrical clean feedstock and contains limited amount of selected additives. Borcell™ HE1123 is designed to be used as insulation for radio frequency coaxial cables having an extra high demand on low attenuation at high frequencies. By blending with a suitable stabilized LDPE component, such as Borcell™ LE1120, in an optimized ratio, prior to the extrusion, the lowest possible attenuation and good foaming properties can be achieved. Please find more information on applications below. Applications: Borcell™ HE1123 is designed to use as physically foamed insulation for radio frequency coaxial cables (50 Ohm). Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borcell-HE1123-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.963 g/cc	0.0348 lb/in³	ISO 1872-2/ISO 1183
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 190 °C	8.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	1 second; ISO 868
Tensile Strength at Break	33.0 MPa	4790 psi	50mm/min; ISO 527-2
Elongation at Break	600 %	600 %	50mm/min; ISO 527-2

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.35	2.35	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	2.35	2.35	Borealis Method
	@Frequency 1.80e+9 Hz	@Frequency 1.80e+9 Hz	
Dissipation Factor	0.000050	0.000050	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.000060	0.000060	Borealis Method
	@Frequency 1.80e+9 Hz	@Frequency 1.80e+9 Hz	

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Zone 1	150 °C	302 °F	
Zone 2	160 °C	320 °F	
Zone 3	180 °C	356 °F	
Zone 4	180 °C	356 °F	
Zone 5	180 °C	356 °F	
Die Temperature	185 °C	365 °F	
Head Temperature	185 °C	365 °F	

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