

Borealis Borcell™ HE1344 High Density Polyethylene Compound for Cellular Insulation of Data Cables

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

Material Notes:

Borcell HE1344 is a high-molecular weight, high-density polyethylene (HDPE) insulation compound containing an industry approved non plate-out chemical blowing agent. It contains the required levels and types of primary antioxidant and metal deactivator to satisfy most wire and cable standards for product longevity. HE1344 is capable of 50 percent density reduction. Borcell 1344 is designed for the production of foam or foam-skin insulation in either air-core or grease-filled copper cable constructions. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borcell-HE1344-High-Density-Polyethylene-Compound-for-Cellular-Insulation-of-Data-Cables.php

Physical Properties	Metric	English	Comments
Density	0.480 g/cc	0.0173 lb/in ³	Expanded Compound; ASTM D792
	0.945 g/cc	0.0341 lb/in ³	Compound; ASTM D792
Oxidative Induction Time (OIT)	50 min	50 min	At 200°C, Al-pan; ASTM D3895

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	13.1 MPa	1900 psi	Expanded Compound; ASTM D638
	22.8 MPa	3300 psi	Compound; ASTM D638
Elongation at Break	500 %	500 %	Expanded Compound; ASTM D638
	600 %	600 %	Compound; ASTM D638

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.33	2.33	ASTM D1531
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.000040	0.000040	ASTM D1531
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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