

Borealis Borcell™ HE1345 High Density Polyethylene Compound for Cellular Insulation of Telephone Singles

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded

Material Notes:

Borcell HE1345 is a high molecular weight, high-density polyethylene (HDPE) insulation compound containing an industry approved non plate-out chemical blowing agent and contains the required levels and types of primary antioxidant and metal deactivator to satisfy stringent standards for product longevity. It is capable of 50 percent Borcell HE1345 is designed for the production of foam or foam-skin insulations 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-HE1345-High-Density-Polyethylene-Compound-for-Cellular-Insulation-of-Telephone-Singles.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|------------|---------------------------|------------------------------|
| Density | 0.945 g/cc | 0.0341 lb/in ³ | Compound; ASTM D792 |
| Oxidative Induction Time (OIT) | >= 200 min | >= 200 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 |
| | 20.0 MPa | 2900 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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