

Haysite 14100 Polyester BMC, 15% Glass Reinforced

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass Filled BMC

Material Notes:

The 14100 series bulk molding compound is an electrical grade material that can be compression, transfer, or injection molded. Offering good mechanical strength and excellent electrical properties, this grade also exhibits low shrink characteristics. The 14100 BMC is recognized by UL with a 94V-0 flame rating at .060" wall thickness.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Haysite-14100-Polyester-BMC-15-Glass-Reinforced.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---------------|---------------------------|-----------|
| Density | 1.89 g/cc | 0.0683 lb/in ³ | ASTM D572 |
| Water Absorption | 0.10 % | 0.10 % | ASTM D570 |
| Linear Mold Shrinkage | 0.00075 cm/cm | 0.00075 in/in | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------|---------------|---------------------|
| Tensile Strength, Ultimate | 41.0 MPa | 5950 psi | |
| Flexural Strength | 86.0 MPa | 12500 psi | |
| Compressive Strength | 90.0 MPa | 13100 psi | |
| Izod Impact, Notched | 1.90 J/cm | 3.56 ft-lb/in | edgewise; ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|---------|---------|--------------------|
| Maximum Service Temperature, Air | 130 Â°C | 266 Â°F | temperature rating |
| Flammability, UL94 | V-0 | V-0 | File No.E-27875 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|------------------|------------------|---------------------------------------|
| Dielectric Constant | 5.0 | 5.0 | ASTM D150 |
| | @Frequency 60 Hz | @Frequency 60 Hz | |
| Dielectric Strength | 16.0 kV/mm | 406 kV/in | Perpendicular (ASTM D149), Short Time |
| Dissipation Factor | 0.033 | 0.033 | ASTM D150 |
| | @Frequency 60 Hz | @Frequency 60 Hz | |
| Arc Resistance | 192 sec | 192 sec | ASTM D495 |
| Comparative Tracking Index | 600 V | 600 V | |

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