

Premix Premi-Ject® 1102H Fiberglass Reinforced Thermoset BMC

Category : Polymer , Thermoset , Filled/Reinforced Thermoset

Material Notes:

Premi-Ject® 1102H is a fiberglass reinforced thermoset bulk molding compound for coil encapsulation applications. Key features and benefits are: Designed with unique flow properties to encapsulate coil windings Excellent transfer and injection process capabilities in multi-cavity tools Recognized by Underwriters Laboratories, File #E42524 May be extruded for high output transfer molding Standard colors are blue and black Designed for transfer or injection molding in matched metal die molds. Information provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Ject-1102H-Fiberglass-Reinforced-Thermoset-BMC.php

| Physical Properties | Metric | English | Comments |
|-----------------------|------------------------|------------------------|--------------------------|
| Specific Gravity | 1.85 - 1.95 g/cc | 1.85 - 1.95 g/cc | |
| Linear Mold Shrinkage | 0.00050 - 0.0015 cm/cm | 0.00050 - 0.0015 in/in | Polymerization Shrinkage |

| Mechanical Properties | Metric | English | Comments |
|------------------------|-----------|---------------|------------|
| Tensile Strength | 26.0 MPa | 3770 psi | ASTM D638 |
| Elongation at Break | 0.40 % | 0.40 % | ASTM D638 |
| Tensile Modulus | 9.00 GPa | 1310 ksi | ASTM D638 |
| Flexural Strength | 68.0 MPa | 9860 psi | ASTM D790 |
| Flexural Modulus | 9.00 GPa | 1310 ksi | ASTM D790 |
| Poissons Ratio | 0.30 | 0.30 | |
| Shear Modulus | 3.50 GPa | 508 ksi | Calculated |
| Izod Impact, Notched | 3.75 J/cm | 7.03 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 4.25 J/cm | 7.96 ft-lb/in | ASTM D4812 |

| Thermal Properties | Metric | English | Comments |
|---|--------------|-----------------------|--------------|
| CTE, linear, Parallel to Flow | 35.0 µm/m-°C | 19.4 µin/in-°F | Z Direction |
| CTE, linear, Transverse to Flow | 25.0 µm/m-°C | 13.9 µin/in-°F | XY Direction |
| Thermal Conductivity | 0.300 W/m-K | 2.08 BTU-in/hr-ft²-°F | |
| Deflection Temperature at 1.8 MPa (264 psi) | >= 200 °C | >= 392 °F | ASTM D792 |
| UL RTI, Electrical | 130 °C | 266 °F | UL 746C |

| UL RTI Mechanical with Impact Thermal Properties | 130 °C Metric | 266 °F English | UL 746C Comments |
|---|--------------------------|---------------------------|---------------------|
| UL RTI, Mechanical without Impact | 130 °C | 266 °F | UL 746C |
| Flammability, UL94 | HB @Thickness 3.20 mm | HB @Thickness 0.126 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|------------|-----------|-----------|
| Dielectric Strength | 13.0 kV/mm | 330 kV/in | ASTM D149 |
| Arc Resistance | 188 sec | 188 sec | ASTM D495 |

| Processing Properties | Metric | English | Comments |
|------------------------|-----------------|----------------|-------------------------------|
| Processing Temperature | 150 °C | 302 °F | Transfer or Injection Molding |
| Clamp Pressure | 3.45 - 6.89 MPa | 500 - 1000 psi | Molding Pressure |

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