

Premix Premi-Glas® 1100-20 Fiberglass Reinforced Thermoset BMC

Category : Polymer , Thermoset , Filled/Reinforced Thermoset

Material Notes:

Premi-Glas® 1100-20 is a fiberglass reinforced thermoset bulk molding compound for general purpose applications requiring thermal stability and stiffness. Key features and benefits are: Excellent stiffness to weight ratio, non-melting Good dimensional stability, including excellent thermal resistance Pigmentable for molded-in color; best appearance with mold texture Excellent property retention in cold and hot environments Good corrosion resistance except in acid environments. Designed for compression 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-Glas-1100-20-Fiberglass-Reinforced-Thermoset-BMC.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|--------------------------|
| Specific Gravity | 1.70 - 1.85 g/cc | 1.70 - 1.85 g/cc | |
| Linear Mold Shrinkage | 0.0015 - 0.0035 cm/cm | 0.0015 - 0.0035 in/in | Polymerization Shrinkage |

| Mechanical Properties | Metric | English | Comments |
|------------------------|-----------|---------------|------------|
| Tensile Strength | 31.0 MPa | 4500 psi | ASTM D638 |
| Tensile Modulus | 14.0 GPa | 2030 ksi | ASTM D638 |
| Flexural Strength | 110 MPa | 16000 psi | ASTM D790 |
| Flexural Modulus | 10.0 GPa | 1450 ksi | ASTM D790 |
| Poissons Ratio | 0.30 | 0.30 | |
| Shear Modulus | 5.40 GPa | 783 ksi | Calculated |
| Izod Impact, Notched | 4.25 J/cm | 7.96 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 5.30 J/cm | 9.93 ft-lb/in | ASTM D4812 |

| Thermal Properties | Metric | English | Comments |
|---------------------------------|--|--|--------------|
| CTE, linear, Parallel to Flow | 35.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 19.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ | Z Direction |
| CTE, linear, Transverse to Flow | 25.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ | 13.9 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ | XY Direction |
| Thermal Conductivity | 0.300 W/m-K | 2.08 BTU-in/hr-ft ² -°F | |

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

Processing Properties

Metric

English

Comments

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