

Premix Premi-Glas® 2206-22 CR-SX Fiberglass Reinforced Thermoset SMC

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset

Material Notes:

Premi-Glas® 2206-22 CR-SX is a fiberglass reinforced thermoset sheet molding compound for electrical, flame retardant and HVAC applications. Key features and benefits are: Non-Halogen FR technology for regulatory compliance; Pigmentable for molded-in color; best appearance with mold texture; Suitable for outdoor use in applications involving UV exposure and water immersion in accordance with UL746C (f1), file E42524; Designed for compression 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-2206-22-CR-SX-Fiberglass-Reinforced-Thermoset-SMC.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|--------------------------|
| Specific Gravity | 1.75 - 1.85 g/cc | 1.75 - 1.85 g/cc | |
| Linear Mold Shrinkage | 0.0010 - 0.0025 cm/cm | 0.0010 - 0.0025 in/in | Polymerization Shrinkage |

| Mechanical Properties | Metric | English | Comments |
|------------------------|-----------|---------------|------------|
| Tensile Strength | 40.0 MPa | 5800 psi | ASTM D638 |
| Tensile Modulus | 9.00 GPa | 1310 ksi | ASTM D638 |
| Flexural Strength | 115 MPa | 16700 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 | 4.90 J/cm | 9.18 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 6.50 J/cm | 12.2 ft-lb/in | ASTM D4812 |

| Thermal Properties | Metric | English | Comments |
|-----------------------------------|--|--|--------------|
| CTE, linear, Parallel to Flow | 20.0 $\mu\text{m}/\text{m}\cdot\text{C}$ | 11.1 $\mu\text{in}/\text{in}\cdot\text{F}$ | Z Direction |
| CTE, linear, Transverse to Flow | 15.0 $\mu\text{m}/\text{m}\cdot\text{C}$ | 8.33 $\mu\text{in}/\text{in}\cdot\text{F}$ | XY Direction |
| Thermal Conductivity | 0.360 W/m-K | 2.50 BTU-in/hr-ft ² -F | |
| UL RTI, Electrical | 130 °C | 266 °F | UL 746C |
| UL RTI, Mechanical with Impact | 130 °C | 266 °F | UL 746C |
| UL RTI, Mechanical without Impact | 130 °C | 266 °F | UL 746C |
| | V-0 | V-0 | |

| Flammability UL 94 Thermal Properties | Metric @Thickness 2.30 mm | English @Thickness 0.0906 in | Comments |
|--|------------------------------|---------------------------------|----------|
| | 5VB | 5VB | |
| | @Thickness 2.30 mm | @Thickness 0.0906 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|------------|------------|------------|
| Dielectric Strength | 18.0 kV/mm | 457 kV/in | ASTM D149 |
| Arc Resistance | >= 180 sec | >= 180 sec | ASTM D495 |
| Comparative Tracking Index | 600 V | 600 V | ASTM D2303 |

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

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