

Premix Premi-Glas® 2205-15 CR-SX Fiberglass Reinforced SMC

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

Description: Premi-Glas® 2205-15 CR-SX is a fiberglass reinforced thermoset Sheet Molding Compound formulated for excellent electrical properties and fire retardance; it also has very good thermal and dimensional stability, and corrosion resistance. Key features and benefits: Underwriters Laboratories 945VA flame resistance at 2.5 mm minimum wall thickness Subjected to UL746C testing for consideration in exterior applications involving ultraviolet light and water immersion or humidity exposure Formulated for moderate shrinkage to permit good dimensional stability while releasing from deep-draw moldings Refer to UL file E42524 Market: Electrical/Flame Retardant Information provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-2205-15-CR-SX-Fiberglass-Reinforced-SMC.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 | 30.0 MPa | 4350 psi | ASTM D638 |
| Tensile Modulus | 9.00 GPa | 1310 ksi | ASTM D638 |
| Flexural Strength | 100 MPa | 14500 psi | ASTM D790 |
| Flexural Modulus | 8.00 GPa | 1160 ksi | ASTM D790 |
| Poissons Ratio | 0.30 | 0.30 | |
| Shear Modulus | 3.50 GPa | 508 ksi | Calculated |
| Izod Impact, Notched | 5.00 J/cm | 9.37 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 7.00 J/cm | 13.1 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 | |
| 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 Thermal Properties | 130 °C Metric | 266 °F English | UL 746C Comments |
|--|--------------------|----------------------|---------------------|
| Flammability, UL94 | V-0 | V-0 | |
| | @Thickness 1.80 mm | @Thickness 0.0709 in | |
| | 5VB | 5VB | |
| | @Thickness 2.50 mm | @Thickness 0.0984 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|------------|-----------|------------|
| Dielectric Strength | 15.0 kV/mm | 381 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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