

Technical Data Sheet

Typical Application — Electrical/Flame Retardant/HVAC

Premi-Glas® 2200-30 CR-SX is a fiberglass reinforced thermoset sheet molding compound for electrical, flame retardant, and HVAC applications.

Key Features and Benefits:

- Pigmentable for molded-in color; best appearance with mold texture.
- Good dimensional stability, including excellent thermal resistance.
- UL 94-5V flame resistance at 1.5mm minimum thickness.
- Subject to UL746C for consideration in exterior applications involving UV exposure and water immersion. File E42524.

| Typical Values. Mechanical values are for Specimens cut from Compression-Molded panels. | | | |
|---|----------------|---------------------------|-----------------|
| Properties | Test Method | Values (US) | Values (Metric) |
| Flexural Strength | ASTM D-790 | 26,000 psi | 180 MPa |
| Flexural Modulus | ASTM D-790 | 1.4 x 10 ⁶ psi | 10 GPa |
| Tensile Strength | ASTM D-638 | 12,000 psi | 80 MPa |
| Tensile Modulus | ASTM D-638 | 1.7 x 10 ⁶ psi | 12 GPa |
| Notched Izod | ASTM D 256 | 16 ft*lb/in | 850 Joules/m |
| Unnotched Impact | ASTM D 4812 | 23 ft*lb/in | 1,200 Joules/m |
| Comparative Tracking Index | ASTM D-2303 | 600 | 600 |
| UL Relative Thermal Index (electrical) | UL 746C | 266 deg F | 130 deg C |
| UL Relative Thermal Index (mechanical) | UL 746C | 266 deg F | 130 deg C |
| UL Relative Thermal Index (impact) | UL 746C | 266 deg F | 130 deg C |
| Flame Resistance | U.L. 94 5V, VO | Pass, 0.060 in | Pass, 1.5 mm |
| Dielectric Strength, KV/mm | ASTM D149 | 380 Volts/mil | 15 kV/mm |
| Arc resistance, seconds | ASTM D495 | 180 sec | 180 sec |

This SMC product is generally intended to be compression molded in matched metal die molds, typically at 300°F (150°C) and 500 to 1000 psi (35-65 BAR) molding pressure. Strength values may be affected by the molding process. Nominal values for polymerization shrinkage (0.0015 to 0.0035 in/in) and specific gravity (1.70 to 1.85) may be customized for individual applications. Contact your Premix sales representative for specific design recommendations.

Following physical characteristics are typical of this product:

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|-------------------------------------|
| CLTE, XY direction: 25 ppm/ deg C |
| CLTE, Z direction: 35 ppm/deg C |
| Thermal Conductivity: 0.3 W/m*deg K |
| Poisson's Ratio: 0.3 |

The values presented in this data sheet are typical values and are not to be interpreted as product specifications.
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