



Technical Data Sheet

Typical Application — Electrical/Flame Retardant/HVAC

Premi-Glas® 2206-25 CR-SX is a fiberglass reinforced thermoset sheet molding compound for electrical, flame retardant, and HVAC applications.

Key Features and Benefits:

- Non-Halogen FR technology for regulatory compliance.
- Pigmentable for molded-in color; best appearance with mold texture.
- UL 94-5VA flame resistance at 2.3mm minimum thickness.
- Suitable for outdoor use in applications involving UV exposure and water immersion in accordance with UL746C (f1). 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 | 19,000 psi | 130 MPa |
| Flexural Modulus | ASTM D-790 | 1.3 x 10 ⁶ psi | 9 GPa |
| Tensile Strength | ASTM D-638 | 7,000 psi | 50 MPa |
| Tensile Modulus | ASTM D-638 | 1.4 x 10 ⁶ psi | 10 GPa |
| Notched Izod | ASTM D 256 | 10 ft*lb/in | 550 Joules/m |
| Unnotched Impact | ASTM D 4812 | 13 ft*lb/in | 700 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 5VA, VO | Pass, 0.091 in | Pass, 2.3 mm |
| Heat Deflection Temperature | ASTM D-648-07, 264 psi | > 480 deg F | > 250 deg C |
| Moisture Absorption | ASTM D-570, 24 hr | 0.2% | 0.2% |
| Dielectric Strength, KV/mm | ASTM D149 | 460 Volts/mil | 18 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 (0.001 to 0.0025 in/in) and specific gravity (1.75 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: 15 ppm/ deg C |
| CLTE, Z direction: 20 ppm/deg C |
| Thermal Conductivity: 0.36 W/m*deg K |
| Poisson's Ratio: 0.3 |