

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:

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

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