PREMIX
SHAPING THE WORLD OF COMPOSITES

Premi-Glas® 2206-25 CR-SX

Sheet Molding Compound

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	1.3×10^6 psi	9 GPa
Tensile Strength	ASTM D-638	7,000 psi	50 MPa
Tensile Modulus	ASTM D-638	1.4×10^6 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.
All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, expressed or implied.

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