PREMIX
SHAPING THE WORLD OF COMPOSITES

Premi-Glas® 2200-15 CR-SX

Sheet Molding Compound

Technical Data Sheet

Typical Application — Electrical/Flame Retardant/HVAC

Premi-Glas® 2200-15 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	14,500 psi	100 MPa
Flexural Modulus	ASTM D-790	1.2 x 106 psi	8 GPa
Tensile Strength	ASTM D-638	4,500 psi	30 MPa
Tensile Modulus	ASTM D-638	1.3 x 106 psi	9 GPa
Notched Izod	ASTM D 256	9.6 ft*lb/in	500 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 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:

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

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