PREMIX
SHAPING THE WORLD OF COMPOSITES

Premi-Glas® 2208-CR-SX
Sheet Molding Compound

Technical Data Sheet

Typical Application — Electrical/Flame Retardant

Premi-Glas® 2208-CR-SX is a fiberglass reinforced thermoset sheet molding compound for electrical and flame retardant applications.

Key Features and Benefits:

- Good dimensional stability, including excellent thermal resistance.
- Pigmentable for molded-in color; best appearance with mold texture.
- UL Recognized, File # E42524.
- Halogen-free flame retardant technology.

Typical Values. Mechanical values are for Specimens cut from Compression-Molded panels.			
Properties	Test Method	Values (US)	Values (Metric)
Flexural Strength	ASTM D-790	29,000 psi	200 MPa
Flexural Modulus	ASTM D-790	1.4×10^6 psi	10 GPa
Tensile Strength	ASTM D-638	12,000 psi	80 MPa
Tensile Modulus	ASTM D-638	1.9×10^6 psi	13 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 V0	Pass, 0.060 in	Pass, 1.5 mm
	UL 94 5V	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 (0.0002 to 0.0015 in/in) and specific gravity (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: TBD ppm/ deg C
CLTE, Z direction: TBD ppm/deg C
Thermal Conductivity:TBD W/m*deg K