

Technical Data Sheet

Typical Application — Electrical/Flame Retardant/HVAC

Premi-Glas® 2207-20 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 1.5mm minimum thickness.
- Recognized by Underwriters Laboratories, File # E42524.

Typical Values. Mechanical values are from net-shape compression-molded specimens.			
Properties	Test Method	Values (US)	Values (Metric)
Flexural Strength	ASTM D-790	27,500 psi	190 MPa
Flexural Modulus	ASTM D-790	1.45 x 10 <sup>6</sup> psi	10 GPa
Tensile Strength	ASTM D-638	9,500 psi	65 MPa
Tensile Modulus	ASTM D-638	1.75 x 10 <sup>6</sup> psi	12 GPa
Notched Izod	ASTM D 256	15 ft*lb/in	800 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, 0.060 in	Pass, 1.5 mm
Dielectric Strength, KV/mm	ASTM D149	400 Volts/mil	16 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 (1.85 to 1.90) 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

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