

Technical Data Sheet

Typical Application — General Purpose , HVAC

Premi-Glas® 1200H-20 is a fiberglass reinforced thermoset sheet molding compound for general purpose applications requiring thermal stability and stiffness.

Key Features and Benefits:

- Good dimensional stability, including excellent thermal resistance.
- Pigmentable for molded-in color; best appearance with mold texture.
- Excellent property retention in cold and hot environments.
- Suitable for outdoor use in applications involving UV exposure and water immersion in accordance with UL746C (f1), see File E42524

Typical Values. Mechanical values are for Specimens cut from Compression-Molded panels.			
Properties	Test Method	Values (US)	Values (Metric)
Tensile Strength	ASTM D-638	7000 psi	50 MPa
Tensile Modulus	ASTM D-638	1.7 x 10 ⁶ psi	12 GPa
Flexural Strength	ASTM D-790	18,000 psi	125 MPa
Flexural Modulus	ASTM D-790	1.5 x 10 ⁶ psi	10 GPa
Notched Izod	ASTM D 256	10 ft*lb/in	550 Joules/m
Unnotched Impact	ASTM D 4812	15 ft*lb/in	800 Joules/m
Compressive strength	ASTM D-695	24,000 psi	165 MPa
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 HB	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 0.0025 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 ² 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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