Typical Application — General Purpose

Premi-Glas® 1200-15 is a fiberglass reinforced thermoset sheet molding compound for general purpose applications requiring thermal stability and stiffness.

Key Features and Benefits:

- Excellent stiffness to weight ratio, non-melting.
- 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.
- Good corrosion resistance except in acid environments.

Typical Values. Mechanical values are for Specimens cut from Compression-Molded panels.

Properties	Test Method	Values (US)	Values (Metric)
Tensile Strength	ASTM D-638	5000 psi	35 MPa
Tensile Modulus	ASTM D-638	1.7×10^6 psi	12 GPa
Flexural Strength	ASTM D-790	14,000 psi	95 MPa
Flexural Modulus	ASTM D-790	1.4×10^6 psi	9.5 GPa
Notched Izod	ASTM D 256	8 ft*lb/in	425 Joules/m
Unnotched Impact	ASTM D 4812	11 ft*lb/in	600 Joules/m
Compressive strength	ASTM D-695	21,000 psi	145 MPa

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 0.003 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

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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