



Technical Data Sheet

Typical Application — Construction/General Purpose

Premi-Glas® 1205 is a fiberglass reinforced thermoset sheet molding compound for residential entry door skins and other general purpose applications.

Key Features and Benefits:

- Good warp resistance and dimensional repeatability.
- Good flow and fill in thin moldings.
- Excellent resistance to sagging and distortion during door assembly.
- Outstanding appearance in wood-grain texture or smooth skin applications.
- Standard colors are beige and white.

Typical Values. Mechanical values are for Specimens cut from Compression-Molded panels.			
Properties	Test Method	Values (US)	Values (Metric)
Flexural Strength	ASTM D-790	16,000 psi	110 MPa
Flexural Modulus	ASTM D-790	1.5 x 10 <sup>6</sup> psi	10 GPa
Tensile Strength	ASTM D-638	6,000 psi	40 MPa
Tensile Modulus	ASTM D-638	1.5 x 10 <sup>6</sup> psi	10 GPa
Tensile Elongation	ASTM D-638	0.8%	0.8%
Notched Izod	ASTM D 256	10 ft*lb/in	550 Joules/m
Unnotched Impact	ASTM D 4812	12 ft*lb/in	650 Joules/m

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 (0.0004 in/in) and specific gravity (1.80) 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