PREMIX
SHAPING THE WORLD OF COMPOSITES

Premi-Glas® 1203-30
Sheet Molding Compound

Technical Data Sheet

Typical Applications — Automotive Body Panel/Personal Water Craft/Structural

Premi-Glas® 1203-30 is a versatile fiberglass reinforced thermoset sheet molding compound for automotive body panel, personal watercraft or structural and semi-structural applications where excellent surface appearance, high strength, and durability are required.

Key Features and Benefits:

- Excellent surface profile for highly visible painted surfaces.
- Low moisture absorption and long term durability.
- Accepts automotive primers and powder in-mold-coatings.
- Excellent flexural strength and outstanding toughness.
- Standard colors are unpigmented or grey. Limited pigmentability.

Typical Values. Mechanical values are for Specimens cut from Compression-Molded panels.			
Properties	Test Method	Values (US)	Values (Metric)
Flexural Strength	ASTM D-790	30,500 psi	210 MPa
Flexural Modulus	ASTM D-790	1.5×10^6 psi	10 GPa
Tensile Strength	ASTM D-638	14,500 psi	100 MPa
Tensile Modulus	ASTM D-638	2.2×10^6 psi	15 GPa
Tensile Elongation	ASTM D-638	1.2%	1.2%
Notched Izod	ASTM D 256	18 ft*lb/in	950 Joules/m
Unnotched Impact	ASTM D 4812	28 ft*lb/in	1500 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 (0.00025 in/in expansion) and specific gravity (1.95) 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