

Technical Data Sheet

Typical Application — Low Density Transportation/Structural

Premi-Glas® 1206 LD is a fiberglass reinforced thermoset sheet molding compound for transportation or structural and semi-structural applications where good surface appearance, high strength, and durability are required in a low density composite.

Key Features and Benefits:

- Very good surface profile for highly visible painted surfaces.
- Specific gravity of 1.5 for weight savings vs standard composites.
- Accepts automotive primers and powder in-mold-coatings.
- Excellent flexural strength and outstanding toughness.

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

Properties	Test Method	Values (US)	Values (Metric)
Flexural Strength	ASTM D-790	32,000 psi	220 MPa
Flexural Modulus	ASTM D-790	1.15 x 10 <sup>6</sup> psi	8 GPa
Tensile Strength	ASTM D-638	14,500 psi	100 MPa
Tensile Modulus	ASTM D-638	1.2 x 10 <sup>6</sup> psi	8.5 GPa
Tensile Elongation	ASTM D-638	1.9%	1.9%
Notched Izod	ASTM D 256	21 ft*lb/in	1100 Joules/m
Unnotched Impact	ASTM D 4812	27 ft*lb/in	1500 Joules/m
Glass %, weight fraction	Premix washout	38%	38%
Specific gravity	ASTM D-792	1.50	1.50

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. Polymerization shrinkage is an expansion of approximately 0.00025 in/in. Contact your Premix sales representative for specific design recommendations.

Following physical characteristics are typical of this product:

CLTE, XY direction: TBD
CLTE, Z direction: TBD
Thermal Conductivity: TBD
Poisson's Ratio: TBD

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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