PREMIX
SHAPING THE WORLD OF COMPOSITES

Premi-Glas® 1206 LD
Sheet Molding Compound

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	1.15×10^6 psi	8 GPa
Tensile Strength	ASTM D-638	14,500 psi	100 MPa
Tensile Modulus	ASTM D-638	1.2×10^6 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

Last modified: 7/20/2009

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