PREMIX
SHAPING THE WORLD OF COMPOSITES

Premi-Glas® 3404
Sheet Molding Compound

Technical Data Sheet

Typical Application — Mass Transit

Premi-Glas® 3404 is a fiberglass reinforced thermoset sheet molding compound for mass transit and semi-structural applications where low smoke and low flammability are required.

Key Features and Benefits:

- Radiant panel flame spread index of less than 35 per ASTM E-162.
- Smoke Density of less than 25 per ASTM E662 (NBS smoke chamber).
- Accepts powder in-mold-coatings.
- Excellent flexural strength and outstanding toughness.
- Halogen-free flame retardant system for reduced smoke toxicity.

Typical Values. Mechanical values are for Specimens cut from Compression-Molded panels.			
Properties	Test Method	Values (US)	Values (Metric)
Flexural Strength	ASTM D-790	27,500 psi	190 MPa
Flexural Modulus	ASTM D-790	1.5×10^6 psi	10 GPa
Tensile Strength	ASTM D-638	13,000 psi	90 MPa
Tensile Modulus	ASTM D-638	1.5×10^6 psi	10 GPa
Tensile Elongation	ASTM D-638	1.2%	1.2%
Notched Izod	ASTM D 256	10 ft*lb/in	550 Joules/m
Unnotched Impact	ASTM D 4812	18 ft*lb/in	950 Joules/m
Radiant Panel Flame Index	ASTM E-162	35 or less	35 or less
NBS Smoke Density Index, Ds @ 4 minutes.	ASTM E-662	25 or less	25 or less

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 (0.0003 in/in) and specific gravity (1.83) 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