



Technical Data Sheet

Typical Application — Electrical/Flame Retardant

Premi-Glas® 3405 is a fiberglass reinforced thermoset sheet molding compound for electrical and flame retardant applications.

Key Features and Benefits:

- Good dimensional stability, including excellent thermal resistance.
- Pigmentable for molded-in color; best appearance with mold texture.
- Excellent property retention in cold and hot environments.
- Recognized by Underwriters Laboratories, File # E42524.
- Underwriters Laboratories 94-VO flame resistance at 1.5mm thickness.

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
Flexural Modulus	ASTM D-790	1.3 x 10 ⁶ psi	9 GPa
Tensile Strength	ASTM D-638	12,000 psi	80 MPa
Tensile Modulus	ASTM D-638	1.7 x 10 ⁶ psi	12 GPa
Notched Izod	ASTM D 256	19ft*lb/in	1,000 Joules/m
Unnotched Impact	ASTM D 4812	26ft*lb/in	1,400 Joules/m
Comparative Tracking Index	ASTM D-2303	600	600
UL Relative Thermal Index (electrical)	UL 746C	266 deg F	130 deg C
UL Relative Thermal Index (mechanical)	UL 746C	266 deg F	130 deg C
UL Relative Thermal Index (impact)	UL 746C	266 deg F	130 deg C
Flame Resistance	U.L. 94 V0	Pass, 0.060 in	Pass, 1.5 mm
Arc resistance, seconds	ASTM D495	180+ sec	180+ sec

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. Consult your Premix sales representative for typical shrinkage and specific gravity values, and 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