PREMIX
SHAPING THE WORLD OF COMPOSITES

Premi-Glas® 1205-ESD
Sheet Molding Compound

Preliminary Technical Data Sheet

Typical Application — Electrostatic Dissipation

Premi-Glas® 1205-ESD is a fiberglass reinforced thermoset sheet molding compound for general purpose applications where Electrostatic Dissipation is desired.

Key Features and Benefits:

- Good dimensional stability, including excellent thermal resistance.
- Electrostatic Dissipative properties molded into the composite.
- Excellent property retention in cold and hot environments.
- Available only in black. 22% nominal glass % by weight.

Typical Values. Mechanical values are for Specimens molded to net shape.			
Properties	Test Method	Values (US)	Values (Metric)
Tensile Strength	ASTM D-638	8000 psi	55 MPa
Tensile Modulus	ASTM D-638	1.7 x 10^6 psi	12 GPa
Flexural Strength	ASTM D-790	20,000 psi	135 MPa
Flexural Modulus	ASTM D-790	1.1 x 10^6 psi	7.5 GPa
Notched Izod	ASTM D 256	14 ft*lb/in	750 Joules/m
Unnotched Impact	ASTM D 4812	19 ft*lb/in	1000 Joules/m
Surface Resistance	ASTM D-257	10^6 to 10^9 ohms/sq	10^6 to 10^9 ohms/sq

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 (0.0015 to 0.0025 in/in) and specific gravity (1.65) 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: TBD ppm/ deg C
CLTE, Z direction: TBD ppm/deg C
Thermal Conductivity: TBD W/m*deg K
Poisson's Ratio: TBD

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