

Premi-Glas® 1205-ESD

Sheet Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC suitable for general purpose applications where Electrostatic Dissipation is desired.

GENERAL

Material Status	• Commercial: Active
Availability	• North America • South America
Filler/Reinforcement	• Glass Fiber and mineral filler
Features	<ul style="list-style-type: none"> • Good dimensional stability • Electrostatic Dissipative properties molded into the composite • Excellent property retention in cold and hot environments • Excellent Thermal Resistance • 22% nominal glass by weight • Only available in Black
Processing Method	• This SMC product is generally intended to be compression molded in matched metal die molds, typically at 300°F (150°C) and 500 to 1,000 psi (35-65 BAR) molding pressure. Strength values may be affected by the molding process.
Resin	• Unsaturated Polyester Composite

PHYSICAL	Typical	Unit	Test Method
Density	1.65	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0015-0.0025	in/in	ASTM D955

MECHANICAL (As molded)	Typical	Unit	Test Method
Tensile Modulus	1.7 x 10 ⁶ (12)	psi (GPa)	ASTM D638
Tensile Strength	8,000 (55)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.1 x 10 ⁶ (7.5)	psi (GPa)	ASTM D790
Flexural Strength	20,000 (135)	psi (MPa)	ASTM D790

The information and recommendations contained in this document are based upon data collected by A. Schulman and are believed to be reliable; however, because A. Schulman cannot anticipate or control the many different conditions under which this information and/or product may be used, no representation is made and no warranty is given of any kind, express or implied, for completeness, accuracy, availability, suitability, usefulness, commercial value, or non-violation of intellectual property rights of information, recommendation, and products and services directly or indirectly provided. A. Schulman assumes no responsibility for the results of the use of products and processes described herein and expressly disclaims the implied warranties of merchantability and fitness for a particular use.

Premi-Glas® 1205-ESD

Sheet Molding Compound

IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	14 (750)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	19 (1000)	ft-lb/in (J/m)	ASTM D4812

ELECTRICAL	Typical	Unit	Test Method
Surface Resistance	10^6 - 10^9	ohms/sq	ASTM D-257

For additional information, please contact:

A. Schulman Inc., Engineered Composites
3365 East Center St, Conneaut, Ohio 44030
p: 440-224-2181
f: 440-224-2766
www.aschulman.com

Page 2 of 2

Revision Date: July 18, 2016

The information and recommendations contained in this document are based upon data collected by A. Schulman and are believed to be reliable; however, because A. Schulman cannot anticipate or control the many different conditions under which this information and/or product may be used, no representation is made and no warranty is given of any kind, express or implied, for completeness, accuracy, availability, suitability, usefulness, commercial value, or non-violation of intellectual property rights of information, recommendation, and products and services directly or indirectly provided. A. Schulman assumes no responsibility for the results of the use of products and processes described herein and expressly disclaims the implied warranties of merchantability and fitness for a particular use.