

# Premi-Glas<sup>®</sup> 2208-CR-SX

## Sheet Molding Compound

### PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC suitable for electrical and flame retardant applications

#### GENERAL

<b>Material Status</b>	• Commercial: Active		
<b>Availability</b>	• North America	• South America	
<b>Filler/Reinforcement</b>	• Glass Fiber and mineral filler		
<b>Features</b>	• Non-Halogen FR technology • UL Recognized—File E69414	• Good dimensional stability • UL94-V0/5V @1.5 mm	• Pigmentable
<b>Processing Method</b>	• 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.		
<b>Resin</b>	• Unsaturated Polyester Composite		

PHYSICAL	Typical	Unit	Test Method
<b>Density</b>	1.85	g/cm <sup>3</sup>	ASTM D792
<b>Mold Shrinkage (RT mold/RT part)</b>	0.0002-0.0015	in/in	ASTM D955

MECHANICAL (As cut)	Typical	Unit	Test Method
<b>Tensile Modulus</b>	1.9 x 10 <sup>6</sup> (13)	psi (GPa)	ASTM D638
<b>Tensile Strength</b>	12,000 (80)	psi (MPa)	ASTM D638
<b>Flexural Modulus (RT)</b>	1.4 x 10 <sup>6</sup> (10)	psi (GPa)	ASTM D790
<b>Flexural Strength</b>	29,000 (200)	psi (MPa)	ASTM D790

IMPACT	Typical	Unit	Test Method
<b>Izod Notched Impact Strength</b>	16 (850)	ft-lb/in (J/m)	ASTM D256
<b>Unnotched Impact Strength</b>	23 (1,200)	ft-lb/in (J/m)	ASTM D4812

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<b>THERMAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
UL RTI, Electrical	266 (130)	°F (°C)	UL 746B
UL RTI, Mechanical with Impact	266 (130)	°F (°C)	UL 746B
UL RTI, Mechanical without Impact	266 (130)	°F (°C)	UL 746B

<b>FLAMMABILITY</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Flammability	0.060 (1.5)	in (mm)	UL94 V-0
Flammability	0.060 (1.5)	in (mm)	UL94 5V

<b>ELECTRICAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Dielectric Strength	380 (15)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	180+	seconds	ASTM D495
Comparative Tracking Index	600+	volts	ASTM D2303

UL File Number E69414



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

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