

# Premi-Glas<sup>®</sup> 2207-25 CR-SX

## Sheet Molding Compound

### PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC suitable for electrical, flame retardant, and HVAC 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>	• Pigmentable • UL Recognized—File E69414	• Non-Halogen FR technology • UL94-5VA @1.5 mm	• (f1) - Suitable for outdoor use
<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
Density	1.85-1.90	g/cm <sup>3</sup>	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.001-0.0025	in/in	ASTM D955
CLTE, X-Y plane	15	ppm/°C	ASTM E831
CLTE, Z plane	20	ppm/°C	ASTM E831

MECHANICAL (As molded)	Typical	Unit	Test Method
Tensile Modulus	2.0 x 10 <sup>6</sup> (14.0)	psi (GPa)	ASTM D638
Tensile Strength	11,000 (75)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.7 x 10 <sup>6</sup> (12.0)	psi (GPa)	ASTM D790
Flexural Strength	32,000 (220)	psi (MPa)	ASTM D790

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<b>IMPACT</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Izod Notched Impact Strength	17 (900)	ft-lb/in (J/m)	ASTM D256

<b>THERMAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Thermal Conductivity, 25°C	0.36	W/m-°K	ASTM E1461
UL RTI, Electrical	266 (130)	°F (°C)	UL 746C
UL RTI, Mechanical with Impact	266 (130)	°F (°C)	UL 746C
UL RTI, Mechanical without Impact	266 (130)	°F (°C)	UL 746C

<b>FLAMMABILITY</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Flammability	0.006 (1.50)	in (mm)	UL94 5VA V-0

<b>ELECTRICAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Dielectric Strength	400 (16)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	180+	seconds	ASTM D495
Comparative Tracking Index	600	volts	ASTM D2303

UL File Number E69414



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