

# Premi-Glas® 2206-25 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>	• UL Recognized—File E69414 • UL94-5VA @2.3 mm • Non-Halogen FR technology • Pigmentable for molded-in color • Suitable for outdoor use in accordance with UL746C (f1)
<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	1.75-1.85	g/cm <sup>3</sup>	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.001-0.0025	in/in	ASTM D955
Water Absorption, 24 hrs, 23°C	0.2	%	ASTM D570
CLTE, X-Y plane	15	ppm/°C	ASTM E831
CLTE, Z plane	20	ppm/°C	ASTM E831
Poisson's Ratio	0.3		ASTM D638

MECHANICAL (As cut)	Typical	Unit	Test Method
Tensile Modulus	1.4 x 10 <sup>6</sup> (10)	psi (GPa)	ASTM D638
Tensile Strength	7,000 (50)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.3 x 10 <sup>6</sup> (9)	psi (GPa)	ASTM D790
Flexural Strength	19,000 (130)	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	10 (550)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	13 (700)	ft-lb/in (J/m)	ASTM D4812

<b>THERMAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Heat Deflection Temperature	>480 (>250)	°F (°C)	ASTM D648
Thermal Conductivity, 25°C	0.36	W/m-°K	ASTM E1461
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	Pass 0.091 (2.3)	in (mm)	UL94 5Va, V0

<b>ELECTRICAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Dielectric Strength	460 (18)	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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