

Premi-Glas® 2206-15 CR-SX

Sheet Molding Compound

PRODUCT DESCRIPTION

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

GENERAL

Material Status	• Commercial: Active
Availability	• North America • South America
Filler/Reinforcement	• Glass Fiber and mineral filler
Features	• UL Recognized—File E69414 • UL94-V0 @2.3 mm • Non-Halogen FR technology • Suitable for outdoor use in applications in accordance with UL746C (f1)
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	1.75-1.85	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0015-0.0025	in/in	ASTM D955
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	1.3 x 10 ⁶ (9)	psi (GPa)	ASTM D638
Tensile Strength	4,500 (30)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.3 x 10 ⁶ (9)	psi (GPa)	ASTM D790
Flexural Strength	14,000 (95)	psi (MPa)	ASTM D790

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	8.5 (460)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	11 (600)	ft-lb/in (J/m)	ASTM D4812

THERMAL	Typical	Unit	Test Method
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

FLAMMABILITY	Typical	Unit	Test Method
Flammability	Pass 0.091 (2.3)	in (mm)	UL94 5VA, V0

ELECTRICAL	Typical	Unit	Test Method
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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