

Premi-Glas[®] 2143-24 CR-SX

Thick Molding Compound®

PRODUCT DESCRIPTION

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

GENERAL Material Status	• Commercial: Active					
Availability	North America	North America				
Filler/Reinforcement	Glass Fiber and m	Glass Fiber and mineral filler				
Features	 Better strength vs. UL94-V0 @2.5 mm 	Better strength vs. BMC VL94-V0 @2.5 mm Non-Halogen FR technology UL Recognized—File E69414				
Processing Method	This TMC product compression molde (35-65 BAR) moldin	 This TMC product is generally intended to be injection molding, injection-compression, or 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 Polye	Unsaturated Polyester Composite				
PHYSICAL Density	Typical 1.70-1.80	Unit g/cm ³	Test Method ASTM D792			
Mold Shrinkage (RT mold/RT part)	0.0015-0.0020	in/in	ASTM D955			
CLTE, X-Y plane	25	ppm/°C	ASTM E831			
CLTE, Z plane	35	ppm/°C	ASTM E831			
Poisson's Ratio	0.30		ASTM D638			
MECHANICAL (As molded) Tensile Modulus	Typical 2.1 x 10 ⁶ (15.0)	Unit psi (GPa)	Test Method ASTM D638			
Tensile Strength	12,000 (82)	psi (MPa)	ASTM D638			

psi (GPa)

psi (MPa)

ASTM D790

ASTM D790

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Flexural Modulus (RT)

Flexural Strength

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1.5 x 10⁶ (10.0)

20,500 (140)



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IMPACT Izod Notched Impact Strength	Typical 20 (1,100)	Unit ft-lb/in (J/m)	Test Method ASTM D256
Unnotched Impact Strength	27 (1,400)	ft-lb/in (J/m)	ASTM D4812
THERMAL Thermal Conductivity, 25°C	Typical 0.30	Unit W/m-°K	Test Method 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

FLAMMABILITY	Typical	Unit	Test Method	
Flammability	Pass 0.10 (2.5)	in (mm)	UL94 V0	
ELECTRICAL Dielectric Strength	Typical 380 (15)	Unit Volts/mil (kV/mm)	Test Method ASTM D149	
Arc Track Resistance	180+	seconds	ASTM D495	
Comparative Tracking Index	600	volts	ASTM D2303	

UL File Number

E69414



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