

Premi-Glas® 3100-22

Bulk Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester BMC suitable for

GENERAL

Material Status	• Commercial: Active		
Availability	• North America • Asia Pacific	• Europe • South America	
Filler/Reinforcement	• Glass Fiber and mineral filler		
Features	• Good dimensional stability • Excellent property retention in cold and hot environments	• Excellent thermal resistance	• UL94-V0 @1.5 mm • UL Recognized—File E69414
Processing Method	• This BMC product is generally intended to be compression or injection molded in matched metal die molds, typically at 300°F (150°C) and 500to 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	1.70-1.85	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0015-0.0035	in/in	ASTM D955
CLTE, X-Y plane	25	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.3		ASTM D638

MECHANICAL (As cut)	Typical	Unit	Test Method
Tensile Modulus	1.8 x 10 ⁶ (12)	psi (GPa)	ASTM D638
Tensile Strength	5,500 (38)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.5 x 10 ⁶ (10)	psi (GPa)	ASTM D790
Flexural Strength	18,000 (124)	psi (MPa)	ASTM D790

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	8 (425)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	11 (585)	ft-lb/in (J/m)	ASTM D4812

THERMAL	Typical	Unit	Test Method
Thermal Conductivity, 25°C	0.3	W/m-°K	ASTM E1461
UL RTI, Electrical	130	°C	UL 746C
UL RTI, Mechanical with Impact	130	°C	UL 746C
UL RTI, Mechanical without Impact	130	°C	UL 746C

FLAMMABILITY	Typical	Unit	Test Method
Flammability	Pass .0060 (1.5)	in (mm)	UL94 V-0

ELECTRICAL	Typical	Unit	Test Method
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
 1600 Powis Ct, West Chicago, IL 60185
 p: 630-377-1065
 f: 630-377-7395
www.aschulman.com

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