

Premi-Ject® 1102H

Bulk Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester BMC suitable for coil encapsulation applications.

GENERAL

Material Status	• Commercial: Active		
Availability	• North America • Asia Pacific	• Europe • South America	
Filler/Reinforcement	• Glass Fiber and mineral filler		
Features	<ul style="list-style-type: none"> • Excellent transfer/injection process capabilities in mult-cavity tools • Outstanding flow • UL Recognized—File E69414 • UL94-HB @ 3.2 mm 		
Processing Method	• This BMC product is generally intended to be compression, injection or transfer 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. May be extruded for high output transfer molding.		
Resin	• Unsaturated Polyester Composite		

PHYSICAL	Typical	Unit	Test Method
Density	1.85-1.95	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0005-0.0015	in/in	ASTM D955
CLTE, X-Y plane	25	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.36		ASTM D638

MECHANICAL (As cut)	Typical	Unit	Test Method
Tensile Modulus	1.3 x 10 ⁶ (9)	psi (GPa)	ASTM D638
Tensile Strength	3,800 (26)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.3 x 10 ⁶ (9)	psi (GPa)	ASTM D790
Flexural Strength	9,800 (68)	psi (MPa)	ASTM D790

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	7 (375)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	8 (425)	ft-lb/in (J/m)	ASTM D4812

THERMAL	Typical	Unit	Test Method
Heat Deflection Temperature	400+ (200+)	°F (°C)	ASTM D648
Thermal Conductivity, 25°C	0.30	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 0.125 (3.2)	in (mm)	UL94 HB

ELECTRICAL	Typical	Unit	Test Method
Dielectric Strength	330 (13)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	180+	seconds	ASTM D495

UL File Number E69414



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