

BMC 350

Bulk Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester BMC suitable for small appliance end panels, control panels, vent trim, bases and large appliance handles.

GENERAL

Material Status	• Commercial: Active	
Availability	• North America • Asia Pacific	• Europe • South America
Filler/Reinforcement	• Glass Fiber and mineral filler	
Features	• Excellent stain resistance • UL Recognized—File E69414	• Excellent thermal resistance • UL94-V0 @ 3.0 mm all colors
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. Can be extruded as logs, bricks or bulk.	
Resin	• Unsaturated Polyester Composite	

PHYSICAL	Typical	Unit	Test Method
Density	1.75-1.8	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.002-0.003	in/in	ASTM D955
Water Absorption, 24 hrs, 23°C	0.15-0.25	%	ASTM D570
Hardness, Barcol	40-50	Barcol Units	ASTM D2583
Poisson's Ratio	0.36		ASTM D638

MECHANICAL (As molded)	Typical	Unit	Test Method
Tensile Strength	5,000-6,000 (34-41)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	0.8-1.0 x 10 ⁶ (5.5-6.8)	psi (GPa)	ASTM D790
Flexural Strength	10,000-11,500 (68-79)	psi (MPa)	ASTM D790
Compressive Strength	10,000-15,000 (68-103)	psi (MPa)	ASTM D695

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	3.5-4.0 (190-210)	ft-lb/in (J/m)	ASTM D256
THERMAL	Typical	Unit	Test Method
Heat Deflection Temperature	425-500+ (218-260)	°F (°C)	ASTM D648
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 0.118 (3.0)	in (mm)	UL94 V-0 All Colors

UL File Number E69414



For additional information, please contact:

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