BMC 1050
Bulk Molding Compound

PRODUCT DESCRIPTION
Glass fiber reinforced Polyester BMC suitable for toaster end panels, iron skirts, and lighting baffles.

GENERAL

Material Status	• Commercial: Active	
Availability	• North America • Asia Pacific	• Europe • South America
Filler/Reinforcement	• Glass Fiber and mineral filler	
Features	• Cosmetic grade • UL Recognized—File E69414	• Superior heat stability • UL94-HB @ 1.5 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. Can be supplied in logs, slugs or bulk	
Resin	• Unsaturated Polyester Composite	

PHYSICAL	Typical	Unit	Test Method
Density	1.95-2.05	g/cm^3	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0015-0.0025	in/in	ASTM D955
Water Absorption, 24 hrs, 23°C	0.12-0.18	%	ASTM D570
Hardness, Barcol	45-55	Barcol Units	ASTM D2583
Poisson's Ratio	0.36		ASTM D638

MECHANICAL (As molded)	Typical	Unit	Test Method
Tensile Strength	5,000-7,000 (34-48)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.8-2.0 x 10^6 (12.4-13.8)	psi (GPa)	ASTM D790
Flexural Strength	12,000-16,000 (82-110)	psi (MPa)	ASTM D790
Compressive Strength	18,000-20,000 (124-138)	psi (MPa)	ASTM D695

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	2-4 (105-212)	ft-lb/in (J/m)	ASTM D256

THERMAL	Typical	Unit	Test Method
Heat Deflection Temperature	500 + (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 0.06 (1.5)	in (mm)	UL94 HB

ELECTRICAL	Typical	Unit	Test Method
Dielectric Strength	350 (13.8)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	185+	seconds	ASTM D495

UL File Number E69414

For additional information, please contact:

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