

BMC T60-6006

Bulk Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester BMC suitable for power distribution equipment, switching components/relays, constant use switch applications and circuit protection breakers.

GENERAL

Material Status	• Commercial: Active		
Availability	• North America • Asia Pacific	• Europe • South America	
Filler/Reinforcement	• Glass Fiber and mineral filler		
Features	• Wear resistant • Weight savings	• Excellent abrasion resistance • UL Recognized—File E69414	• Low Specific Gravity • UL94-V0 @ 2.3 mm BK ONLY
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.		
Resin	• Unsaturated Polyester Composite		

PHYSICAL	Typical	Unit	Test Method
Density	1.51-1.71	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.002-0.003	in/in	ASTM D955
Hardness, Barcol	5-10	Barcol Units	ASTM D2583
Poisson's Ratio	0.36		ASTM D638

MECHANICAL (As molded)	Typical	Unit	Test Method
Tensile Strength	4,500-6,500 (31-44)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	0.53-0.73 x 10 ⁶ (3.6-5.0)	psi (GPa)	ASTM D790
Flexural Strength	7,800-11,800 (53-81)	psi (MPa)	ASTM D790
Compressive Strength	12,300-16,300 (84-112)	psi (MPa)	ASTM D695

IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	2.3-4.3 (122-229)	ft-lb/in (J/m)	ASTM D256

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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 0.09 (2.3)	in (mm)	UL94-V0 BK ONLY

ELECTRICAL	Typical	Unit	Test Method
Dielectric Strength	335-385 (13-15)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	185+	seconds	ASTM D495
Comparative Tracking Index	500+	volts	ASTM D3638

UL File Number E69414



For additional information, please contact:

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