

BMC T60-6002A-WG

Bulk Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester BMC compound specifically formulated for applications that require excellent abrasion resistance. Due to its low specific gravity it has substantial cost per cubic inch savings. UL listed black only.

GENERAL

Material Status	• Commercial: Active		
Availability	• North America • Asia Pacific	• Europe • South America	
Filler/Reinforcement	• Glass Fiber and mineral filler		
Features	• Weight savings • Excellent abrasion resistance	• UL Recognized—File E69414	• UL94-V0 @2.4 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 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	1.62-1.82	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0015-0.0025	in/in	ASTM D955
Hardness, Barcol	20-25	Barcol Units	ASTM D2583
Poisson's Ratio	0.36		ASTM D638

MECHANICAL (As molded)	Typical	Unit	Test Method
Tensile Strength	6,600-8,600 (45-59)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.7-1.9 x 10 ⁶ (11.7-13.1)	psi (GPa)	ASTM D790
Flexural Strength	24,700-28,000 (170-190)	psi (MPa)	ASTM D790
Compressive Strength	12,700-16,700 (87-115)	psi (MPa)	ASTM D695

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	6-8 (320-425)	ft-lb/in (J/m)	ASTM D256
THERMAL	Typical	Unit	Test Method
Heat Deflection Temperature, 264 PSI	>500 (>260)	°F (°C)	ASTM D648
UL RTI, Electrical	130	°C	UL 746B
UL RTI, Mechanical with Impact	130	°C	UL 746B
UL RTI, Mechanical without Impact	130	°C	UL 746B
FLAMMABILITY	Typical	Unit	Test Method
Flammability BLACK ONLY	.094 (2.4)	in (mm)	UL94 V-0
ELECTRICAL	Typical	Unit	Test Method
Dielectric Strength	360-410 (14.1-16.1)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	>188	seconds	ASTM D495
Comparative Tracking Index	500+	volts	ASTM D2303

UL File Number E69414



For additional information, please contact:

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