

BMC 885

Bulk Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester BMC is a medium strength, electrically conductive, low shrink molding compound suitable for outdoor lighting fixtures. Available in black only.

GENERAL

Material Status	• Commercial: Active		
Availability	• North America • Asia Pacific	• Europe • South America	
Filler/Reinforcement	• Glass Fiber and mineral filler		
Features	• UL Recognized—File E69414 • UL94-V0 @ 1.5 mm BK • UL F2 approved for outdoor use		
Processing Method	• This BMC product is generally intended to be compression or injection 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. Available in bulk or pre-weighted slugs.		
Resin	• Unsaturated Polyester Composite		

PHYSICAL	Typical	Unit	Test Method
Density	1.75-1.90	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.001-0.003	in/in	ASTM D955
Water Absorption, 24 hrs, 23°C	0.10-0.20	%	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	6,000-8,000 (40-55)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.7-1.9 x 10 ⁶ (11.7-13.1)	psi (GPa)	ASTM D790
Flexural Strength	15,000-20,000 (100-135)	psi (MPa)	ASTM D790
Compressive Strength	17,000-20,000 (115-135)	psi (MPa)	ASTM D695

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	4-7 (210-370)	ft-lb/in (J/m)	ASTM D256

THERMAL	Typical	Unit	Test Method
UL RTI, Electrical	105	°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	Pass 0.059 (1.5)	in (mm)	UL94 V-0 BK

ELECTRICAL	Typical	Unit	Test Method
Surface Resistivity	10 ⁵	Ohms/Sq	ASTM D257

UL File Number E69414



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