

BMC T15-GPS

Bulk Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester BMC suitable for circuit breakers, insulators, bobbins, and electrical connectors.

GENERAL

Material Status	• Commercial: Active	
Availability	• North America • Asia Pacific	• Europe • South America
Filler/Reinforcement	• Glass Fiber and mineral filler	
Features	• Excellent electrical properties • UL Recognized—File E69414	• Excellent flame resistance • UL94-V0 @1.5 mm
Processing Method	• This BMC product is generally intended to be injection, transfer, or compression 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. Extrusions available.	
Resin	• Unsaturated Polyester Composite	

PHYSICAL	Typical	Unit	Test Method
Density	1.85	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.002-0.003	in/in	ASTM D955
Hardness, Barcol	30-35	Barcol Units	ASTM D2583
Poisson's Ratio	0.36		ASTM D638

MECHANICAL (As molded)	Typical	Unit	Test Method
Tensile Modulus	1.8 x 10 ⁶ (12.4)	psi (GPa)	ASTM D638
Tensile Strength	7,500 (50)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.9 x 10 ⁶ (13.1)	psi (GPa)	ASTM D790
Flexural Strength	24,000 (165)	psi (MPa)	ASTM D790
Compressive Strength	19,000 (130)	psi (MPa)	ASTM D695

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	8.0 (425)	ft-lb/in (J/m)	ASTM D256
THERMAL	Typical	Unit	Test Method
Heat Deflection Temperature	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	1.5	mm	UL94 V-0
ELECTRICAL	Typical	Unit	Test Method
Dielectric Strength	380 (15)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	180+	seconds	ASTM D495
Comparative Tracking Index	500+	volts	ASTM D2303

UL File Number E69414



For additional information, please contact:

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