

BMC 695

Bulk Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Vinyl ester BMC suitable for die casting and sheet molding compounds, valve covers, timing chain covers, and engine top covers.

GENERAL

Material Status	• Commercial: Active		
Availability	• North America • Asia Pacific	• Europe • South America	
Filler/Reinforcement	• Glass Fiber and mineral filler		
Features	• Excellent creep resistance in hot environments	• Good oil and solvent resistance	
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	• Vinyl ester Composite		

PHYSICAL	Typical	Unit	Test Method
Density	1.70-1.77	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.0-0.001	in/in	ASTM D955
Water Absorption, 24 hrs, 23°C	0.1-0.3	%	ASTM D570
Hardness, Barcol	50-60	Barcol Units	ASTM D2583
Poisson's Ratio	0.36		ASTM D638

MECHANICAL (As molded)	Typical	Unit	Test Method
Tensile Strength	8,000-11,000 (55-75)	psi (MPa)	ASTM D638
Flexural Strength	20,000-29,000 (138-200)	psi (MPa)	ASTM D790
Compressive Strength	20,000-25,000 (138-172)	psi (MPa)	ASTM D695

BMC 695

Bulk Molding Compound

IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	14-19 (745-1015)	ft-lb/in (J/m)	ASTM D256

THERMAL	Typical	Unit	Test Method
Heat Deflection Temperature	500+ (260+)	°F (°C)	ASTM D648

ELECTRICAL	Typical	Unit	Test Method
Dielectric Strength	360 (14.1)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	180+	seconds	ASTM D495
Comparative Tracking Index	500+	volts	ASTM D3638

For additional information, please contact:

A. Schulman Inc., Engineered Composites
1600 Powis Ct, West Chicago, IL 60185
p: 630-377-1065
f: 630-377-7395
www.aschulman.com

The information and recommendations contained in this document are based upon data collected by A. Schulman and are believed to be reliable; however, because A. Schulman cannot anticipate or control the many different conditions under which this information and/or product may be used, no representation is made and no warranty is given of any kind, express or implied, for completeness, accuracy, availability, suitability, usefulness, commercial value, or non-violation of intellectual property rights of information, recommendation, and products and services directly or indirectly provided. A. Schulman assumes no responsibility for the results of the use of products and processes described herein and expressly disclaims the implied warranties of merchantability and fitness for a particular use.