

Premi-Glas® 1103

Bulk Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Urethane/Vinyl ester hybrid BMC suitable for encapsulation of pultruded composites

GENERAL

Material Status	• Commercial: Active		
Availability	• North America • Asia Pacific	• Europe • South America	
Filler/Reinforcement	• Glass Fiber and mineral filler		
Features	• Good adhesion to pultrusion • Cure and release from rotating die	• Good chemical resistance • Outstanding flow	• Pigmentable
Processing Method	• This BMC product is generally intended to be compression/injection 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. Available in bulk or extrusions		
Resin	• Urethane/Vinyl ester Hybrid Composite		

PHYSICAL	Typical	Unit	Test Method
Density	1.53	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.00322	in/in	ASTM D955
Water Absorption, 24 hrs, 23°C	0.095	%	ASTM D570
Hardness, Barcol	42	Barcol Units	ASTM D2583

MECHANICAL (As molded)	Typical	Unit	Test Method
Tensile Modulus	2.03 x 10 ⁶ (14)	psi (GPa)	ASTM D638
Tensile Strength	11,600 (80)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.09 x 10 ⁶ (7.5)	psi (GPa)	ASTM D790
Flexural Strength	15,100 (104)	psi (MPa)	ASTM D790
Compressive Strength	20,800 (143)	psi (MPa)	ASTM D695

Premi-Glas® 1103

Bulk Molding Compound

IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	7.34 (391)	ft-lb/in (J/m)	ASTM D256

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.