

Bulk Molding Compounds BMC 1608 Very High Strength, Corrosion Resistant

Category : Polymer , Thermoset , Polyester, TS

Material Notes:

BMC 1608 is a very high strength, general purpose, corrosion resistant material. Recommended for compression molding only. UL® recognized. Meets FDA requirements for food contact. This material was formerly known as Glastic® 1608.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-1608-Very-High-Strength-Corrosion-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.80 g/cc	1.75 - 1.80 g/cc	
Water Absorption	0.12 - 0.20 %	0.12 - 0.20 %	24 hours, 23°C
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	40 - 50	40 - 50	
Tensile Strength, Ultimate	34.5 - 41.4 MPa	5000 - 6000 psi	
Flexural Strength	193 - 200 MPa	28000 - 29000 psi	
Flexural Modulus	13.8 - 15.2 GPa	2000 - 2200 ksi	
Compressive Strength	234 - 241 MPa	34000 - 35000 psi	
Izod Impact, Notched	4.81 - 5.34 J/cm	9.00 - 10.0 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Dielectric Strength	17.6 kV/mm	447 kV/in	Short Time
Dissipation Factor	0.0050	0.0050	Condition A
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.0080	0.0080	Condition A
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.026	0.026	

Electrical Properties	Metric	English	Condition D Comments
	0.115 @Frequency 60 Hz	0.115 @Frequency 60 Hz	Condition D
Arc Resistance	104 sec	104 sec	
Track Resistance	1.75 sec	1.75 sec	

Processing Properties	Metric	English	Comments
Mold Temperature	138 - 166 °C	280 - 330 °F	

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