

Bulk Molding Compounds BMC 680 Mineral Filled, Glass Fiber Reinforced Polyester Compound

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass and Mineral Filled BMC

Material Notes:

BMC 680 molding compound is a mineral filled, glass fiber-reinforced polyester compound suitable for compression and stuffer injection molding. It is characterized by good moldability, very high impact strength, oil and solvent resistance and creep resistance at elevated temperatures. Typical applications include replacements for die castings and sheet molding compounds, valve covers, intake manifolds, oil pans and circuit breakers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-680-Mineral-Filled-Glass-Fiber-Reinforced-Polyester-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.71 g/cc	1.71 g/cc	
Water Absorption	0.15 %	0.15 %	24 hours, 23°C
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	50 - 60	50 - 60	
Tensile Strength, Ultimate	96.5 - 117 MPa	14000 - 17000 psi	
Flexural Strength	207 - 241 MPa	30000 - 35000 psi	
Compressive Strength	131 - 165 MPa	19000 - 24000 psi	
Izod Impact, Notched	11.2 - 13.9 J/cm	21.0 - 26.0 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	
Flammability, UL94	HB	HB	
	@Thickness 3.17 mm	@Thickness 0.125 in	
	HB	HB	
	@Thickness 1.59 mm	@Thickness 0.0625 in	
	V-0	V-0	
	@Thickness 6.35 mm	@Thickness 0.250 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.0 - 15.7 kV/mm	380 - 400 kV/in	Short Time
Arc Resistance	>= 180 sec	>= 180 sec	
Comparative Tracking Index	>= 600 V	>= 600 V	

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

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