

Bulk Molding Compounds BMC 685 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 685 molding compound is a mineral filled, glass fiber-reinforced polyester compound suitable for compression, transfer and stuffer injection molding. It is characterized by good moldability, 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-685-Mineral-Filled-Glass-Fiber-Reinforced-Polyester-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 g/cc	1.75 g/cc	
Water Absorption	0.11 %	0.11 %	24 hours, 23°C
Linear Mold Shrinkage	0.0015 - 0.0025 cm/cm	0.0015 - 0.0025 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	55 - 65	55 - 65	
Tensile Strength, Ultimate	62.1 - 82.7 MPa	9000 - 12000 psi	
Flexural Strength	179 - 214 MPa	26000 - 31000 psi	
Compressive Strength	179 - 214 MPa	26000 - 31000 psi	
Izod Impact, Notched	7.47 - 10.1 J/cm	14.0 - 19.0 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 1.59 mm	@Thickness 0.0625 in	
	V-0	V-0	
	@Thickness 6.35 mm	@Thickness 0.250 in	
	V-0	V-0	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.4 - 16.1 kV/mm	390 - 410 kV/in	Short Time
Arc Resistance	>= 190 sec	>= 190 sec	
Comparative Tracking Index	>= 500 V	>= 500 V	

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

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