

Bulk Molding Compounds BMC 5209-12940 Mineral Filled, Glass Reinforced Polyester

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

Material Notes:

BMC 5209-12940 molding compound is a mineral filled, glass fiber-reinforced polyester compound suitable for compression, transfer and stuffer injection molding. It is a high impact material produced in bulk form for maximum strength. Other characteristics are good over all electrical properties and flame resistance. Typical applications include circuit breaker housings, standoff insulators, bus supports and tool housings.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-5209-12940-Mineral-Filled-Glass-Reinforced-Polyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.89 g/cc	1.89 g/cc	
Water Absorption	0.080 %	0.080 %	24 hours, 23°C
Linear Mold Shrinkage	0.00020 - 0.0012 cm/cm	0.00020 - 0.0012 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	38 - 50	38 - 50	
Tensile Strength, Ultimate	48.3 - 68.9 MPa	7000 - 10000 psi	
Flexural Strength	152 - 179 MPa	22000 - 26000 psi	
Compressive Strength	165 - 193 MPa	24000 - 28000 psi	
Izod Impact, Notched	3.74 - 4.81 J/cm	7.00 - 9.00 ft-lb/in	

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

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.0 - 16.5 kV/mm	380 - 420 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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