

Bulk Molding Compounds BMC 5209 Mineral Filled, Glass Reinforced Polyester

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

Material Notes:

BMC 5209 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 extruded form for ease of handling. 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-Mineral-Filled-Glass-Reinforced-Polyester.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.90 g/cc	1.90 g/cc	
Water Absorption	0.050 %	0.050 %	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	35 - 45	35 - 45	
Tensile Strength, Ultimate	41.4 - 55.2 MPa	6000 - 8000 psi	
Flexural Strength	124 - 138 MPa	18000 - 20000 psi	
Compressive Strength	165 - 193 MPa	24000 - 28000 psi	
Izod Impact, Notched	3.20 - 4.81 J/cm	6.00 - 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	13.8 - 15.0 kV/mm	350 - 380 kV/in	Short Time

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	

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

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