Bulk Molding Compounds BMC 615 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 615 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 overall electrical properties and flame resistance.Typical applications include circuit breaker housing, standoff insulators, bus supports and collector rings.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-615-Mineral-Filled-Glass-Fiber-Reinforced-Polyester-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.88 g/cc	1.88 g/cc	
Water Absorption	0.12 %	0.12 %	24 hours, 23°C
Linear Mold Shrinkage	0.0020 - 0.0035 cm/cm	0.0020 - 0.0035 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	103 - 138 MPa	15000 - 20000 psi	
Compressive Strength	138 - 165 MPa	20000 - 24000 psi	
Izod Impact, Notched	2.14 - 3.20 J/cm	4.00 - 6.00 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 316 °C	>= 600 °F	
Flammability, UL94	V-0 @Thickness 6.35 mm	V-0 @Thickness 0.250 in	
	V-0 @Thickness 3.17 mm	V-0 @Thickness 0.125 in	
	V-0 @Thickness 1.59 mm	V-0 @Thickness 0.0625 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.3 @Frequency 60 Hz	5.3 @Frequency 60 Hz	
Dielectric Strength	13.6 kV/mm	345 kV/in	Short Time
Dissipation Factor	0.015 @Frequency 60 Hz	0.015 @Frequency 60 Hz	
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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