

Bulk Molding Compounds BMC 605LS 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 605LS molding compound is a low-shrink, mineral filled, glass-fiber-reinforced polyester compound suitable for compression, transfer and stuffer injection molding. It is characterized by good moldability, medium impact strength and excellent overall electrical properties and flame resistance. Typical applications include circuit Mold Shrinkage, mil/in 1.0-2.2 breakers, transformer bobbins and motor end bells.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-605LS-Mineral-Filled-Glass-Fiber-Reinforced-Polyester-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.88 - 1.96 g/cc	1.88 - 1.96 g/cc	
Water Absorption	0.14 %	0.14 %	24 hours, 23°C
Linear Mold Shrinkage	0.0010 - 0.0022 cm/cm	0.0010 - 0.0022 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	40 - 50	40 - 50	
Tensile Strength, Ultimate	41.4 - 55.2 MPa	6000 - 8000 psi	
Flexural Strength	110 - 138 MPa	16000 - 20000 psi	
Compressive Strength	165 - 193 MPa	24000 - 28000 psi	
Izod Impact, Notched	1.07 - 3.20 J/cm	2.00 - 6.00 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 kV/mm	350 kV/in	Short Time
Arc Resistance	190 sec	190 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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