

Bulk Molding Compounds BMC 3001H Mineral Filled Alkyd

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Alkyd (Polyester), Molded, Mineral Filler

Material Notes:

BMC 3001H molding compound is a mineral filled, glass-fiber reinforced alkyd compound suitable for compression and transfer molding. Because of its soft flow, it is also used extensively in cold spur molding. This is a general-purpose material with good creep resistance and electrical properties. Typical applications include brush holders, voltage regulator housings and relay bases.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-3001H-Mineral-Filled-Alkyd.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.15 g/cc	2.15 g/cc	
Water Absorption	0.19 %	0.19 %	24 hours, 23°C
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	60 - 70	60 - 70	
Flexural Strength	103 - 138 MPa	15000 - 20000 psi	
Compressive Strength	145 - 172 MPa	21000 - 25000 psi	
Izod Impact, Notched	1.07 - 2.14 J/cm	2.00 - 4.00 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 6.35 mm	@Thickness 0.250 in	
	HB	HB	
	@Thickness 3.17 mm	@Thickness 0.125 in	
	HB	HB	
	@Thickness 1.59 mm	@Thickness 0.0625 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	6.7	6.7	
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	13.0 kV/mm	330 kV/in	Short Time

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	>= 180 sec	>= 180 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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