

Bulk Molding Compounds BMC 902 Thermoset Polyester, Soft Flow Encapsulation Grade

Category : Polymer , Thermoset , Polyester, TS , Thermoset Polyester Glass Filled BMC

Material Notes:

BMC 902 is a medium strength, high flow molding compound that meets Ford Specification ESFM3D114- A. BMC 902 has excellent electrical properties and creep resistance. It can be pigmented in a wide range of colors and can be supplied in bulk or extruded in pre - weighed slugs. Typical applications are coil encapsulations and bobbins.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-902-Thermoset-Polyester-Soft-Flow-Encapsulation-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.85 - 1.95 g/cc	1.85 - 1.95 g/cc	
Water Absorption	0.12 - 0.20 %	0.12 - 0.20 %	24 hours, 23°C
Linear Mold Shrinkage	0.0025 - 0.0045 cm/cm	0.0025 - 0.0045 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	40 - 50	40 - 50	
Tensile Strength, Ultimate	27.6 - 34.5 MPa	4000 - 5000 psi	
Flexural Strength	62.1 - 82.7 MPa	9000 - 12000 psi	
Flexural Modulus	10.3 - 12.4 GPa	1500 - 1800 ksi	
Compressive Strength	124 - 138 MPa	18000 - 20000 psi	
Izod Impact, Notched	1.07 - 1.60 J/cm	2.00 - 3.00 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	

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.0 - 16.1 kV/mm	380 - 410 kV/in	Short Time
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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