

Bulk Molding Compounds BMC 901 Encapsulating Grade Molding Compound

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

Material Notes:

BMC 901 is an encapsulation grade, soft flow material. As with all other BMC1 compounds, this series can be supplied in logs, slugs or bulk. Typical applications are electrical coil encapsulations and armature shafts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-901-Encapsulating-Grade-Molding-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.87 - 1.95 g/cc	1.87 - 1.95 g/cc	
Water Absorption	0.10 - 0.20 %	0.10 - 0.20 %	24 hours, 23°C
Linear Mold Shrinkage	0.0014 - 0.0020 cm/cm	0.0014 - 0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	35 - 45	35 - 45	
Tensile Strength, Ultimate	34.5 - 41.4 MPa	5000 - 6000 psi	
Flexural Strength	68.9 - 82.7 MPa	10000 - 12000 psi	
Flexural Modulus	9.65 - 13.1 GPa	1400 - 1900 ksi	
Compressive Strength	124 - 138 MPa	18000 - 20000 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)	>= 204 °C	>= 400 °F	
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0625 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.8 kV/mm	350 kV/in	Short Time
Arc Resistance	>= 180 sec	>= 180 sec	
Comparative Tracking Index	>= 500 V	>= 500 V	

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