

Bulk Molding Compounds BMC 800 Thermoset Polyester, Corrosion Resistant

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

Material Notes:

BMC 800 compounds are UL rated 94V0/5V. These compounds exhibit excellent strength, corrosion and weather resistant properties. As with all other BMCI compounds, this Series can be supplied in logs, slugs or bulk. Typical applications are marine applications and pump housings.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-800-Thermoset-Polyester-Corrosion-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.95 g/cc	1.75 - 1.95 g/cc	
Water Absorption	0.10 - 0.15 %	0.10 - 0.15 %	24 hours, 23°C
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 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	96.5 - 138 MPa	14000 - 20000 psi	
Flexural Modulus	11.7 - 13.1 GPa	1700 - 1900 ksi	
Compressive Strength	124 - 138 MPa	18000 - 20000 psi	
Izod Impact, Notched	2.14 - 5.34 J/cm	4.00 - 10.0 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	13.8 - 15.7 kV/mm	350 - 400 kV/in	Short Time
Arc Resistance	>= 190 sec	>= 190 sec	
Comparative Tracking Index	>= 500 V	>= 500 V	

Processing Properties	Metric	English	Comments

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