

Bulk Molding Compounds BMC HT12-1023L Unsaturated Polyester Bulk Molding Compound

Category : Polymer , Thermoset , Polyester, TS , Polyester (Thermoset) - Rigid

Material Notes:

BMC HT12-1023L is a highly engineered Unsaturated Polyester Bulk Molding Compound developed for automotive under-hood applications. This compound is specified by Ford motor company for solenoid caps. Due to its excellent heat resistance and dimensional stability it performs well in automotive applications. Information provided by Bulk Molding Compounds, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-HT12-1023L-Unsaturated-Polyester-Bulk-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.75 - 1.95 g/cc	0.0632 - 0.0704 lb/in ³	Molded
Linear Mold Shrinkage	0.0015 - 0.0025 cm/cm	0.0015 - 0.0025 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	30 - 35	30 - 35	
Tensile Strength	67.6 - 81.4 MPa	9800 - 11800 psi	
Flexural Strength	134 - 162 MPa	19500 - 23500 psi	
Flexural Modulus	12.4 - 13.8 GPa	1800 - 2000 ksi	
Compressive Strength	149 - 177 MPa	21600 - 25600 psi	
Izod Impact, Notched	2.72 - 3.79 J/cm	5.10 - 7.10 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	218 - 260 °C	425 - 500 °F	
Flammability, UL94	HB	HB	This product is not currently UL listed.

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.7 - 15.6 kV/mm	347 - 397 kV/in	short time
Arc Resistance	180 sec	180 sec	

Processing Properties	Metric	English	Comments
Processing Temperature	143 - 171 °C	290 - 340 °F	

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