

Bulk Molding Compounds BMC HT12-1027 Unsaturated Polyester Bulk Molding Compound

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

Material Notes:

BMC HT12-1027 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-HT12-1027-Unsaturated-Polyester-Bulk-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.76 - 1.96 g/cc	0.0636 - 0.0708 lb/in ³	Molded
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	30 - 35	30 - 35	
Tensile Strength	54.5 - 68.3 MPa	7900 - 9900 psi	
Flexural Strength	164 - 192 MPa	23800 - 27800 psi	
Flexural Modulus	12.4 - 13.8 GPa	1800 - 2000 ksi	
Compressive Strength	170 - 198 MPa	24700 - 28700 psi	
Izod Impact, Notched	8.01 - 9.08 J/cm	15.0 - 17.0 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	14.4 - 16.4 kV/mm	367 - 417 kV/in	short time
Arc Resistance	182 sec	182 sec	

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

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