

Bulk Molding Compounds BMC HT12-1026 Unsaturated Polyester Bulk Molding Compound

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

Material Notes:

BMC HT12-1026 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-HT12-1026-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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