

IDI BMC 46-12

Thermoset, Unspecified

IDI Composites International

Message:

PRODUCT SERIES: 40 SERIES BMC
PRODUCT DESCRIPTION: DIELECTRIC & FLAME RESISTANT
Electrical applications requiring a composite material that possesses a UL Yellow card and flammability performance from UL94 HB, V-0 & 5VA. These materials can be found in Underwriters Laboratory file E53587.

| General Information | | | |
|---|------------------------------------|-------------------|-------------|
| UL YellowCard | E53587-243402 | | |
| Features | Flame Retardant | | |
| Uses | Electrical/Electronic Applications | | |
| UL File Number | E53587 | | |
| Forms | BMC - Bulk Molding Compound | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.70 to 1.90 | g/cm ³ | ASTM D792 |
| Bulk Factor | 2.0 | | ASTM D1895 |
| Molding Shrinkage | 0.10 to 0.30 | % | ISO 2577 |
| Water Absorption (23°C, 24 hr) | 0.10 to 0.30 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Barcol Hardness | 30 to 50 | | ASTM D2583 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 13800 | MPa | ASTM D638 |
| Tensile Strength | 48.3 | MPa | ASTM D638 |
| Flexural Modulus | 13800 | MPa | ASTM D790 |
| Flexural Strength | 124 | MPa | ASTM D790 |
| Compressive Strength | 159 | MPa | ASTM D695 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 430 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | > 260 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |
| Dielectric Strength | 11 | kV/mm | ASTM D149 |
| Arc Resistance | > 180 | sec | ASTM D495 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.50 mm) | V-0 | | UL 94 |

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