



DIELECTRITE 46-12 BMC 20% Glass Reinforced

Thermoset polyester-glass reinforced BMC with excellent electrical properties, high strength, and V-0 flame resistance. Good moldability and produces molded parts with excellent surface finish. Used in electrical switchgear applications.

| Property | Test Method, Unit | Properties | Test Method, Unit | Properties |
|---|--------------------------------|------------|----------------------------|------------|
| Physical and Mechanical Properties | | | | |
| Impact Strength | ASTM D256, FT- LBS/IN | 9 | ISO-179, kJ/m ² | 45 |
| Flexural Strength | ASTM D790, PSI | 20,000 | ISO-178, MPa | 138 |
| Flexural Modulus | ASTM D790, 10 ⁶ PSI | -- | ISO-178, GPa | -- |
| Tensile Strength | ASTM D638, PSI | 8,000 | ISO-527, MPa | 55 |
| Compressive Strength | ASTM D695, PSI | 23,000 | ISO-604, MPa | 159 |
| Water Absorption | ASTM D570, % | 0.12 | ISO-62, % | 0.12 |
| Specific Gravity | ASTM D792, G/CM ³ | 1.80 | ISO-1183, -- | 1.80 |
| Shrinkage | ASTM D955, IN/IN | 0.002 | ISO-2577, % | 0.2 |
| Hardness | ASTM D2583, Barcol | -- | ASTM D2583, Barcol | -- |
| Bulk Factor App. | ASTM D1895, -- | 1.5 | ASTM D1895, -- | 1.5 |
| Electrical Properties | | | | |
| Dielectric Strength | ASTM D149, kV/in | 400 | ISO-243, kV/mm | 16 |
| Arc Resistance | ASTM D495, Seconds | 180 | ASTMD495, Seconds | 180 |
| Thermal & Flame Retardant Properties | | | | |
| Heat Deflection Temperature @ 264PSI | ASTM D648, °F | > 500 | ISO-75, °C | > 260 |
| Flame Resistance | | | | |
| @ 1.5 mm | | -- | | -- |
| @ 3.0 mm | UL94 | -- | UL94 | -- |
| @ 6.0 mm | | -- | | -- |

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