

BMC 6241

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

BMC 6241 is a glass fiber-reinforced material formulated specifically for molding of industrial lighting reflectors where adequate strength is required along with a high reflectivity. It is available in extruded performs in weight and diameter tailored to meet the molder's requirements.

| General Information | | | |
|---|---------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material | | |
| Features | High strength | | |
| Uses | Industrial application | | |
| Forms | BMC-Block Molding Compound | | |
| Processing Method | Compression molding | | |
| | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.93 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (Compression Molded) | 0.25 - 0.40 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.10 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Barcol Hardness | 40 | | ASTM D2583 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield, Compression Molded) | 55.2 | MPa | ASTM D638 |
| Flexural Strength (Compression Molded) | 124 | MPa | ASTM D790 |
| Compressive Strength | 179 | MPa | ASTM D695 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (Compression Molded) | 210 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded) | 260 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |
| Dielectric Strength ¹ | 14 | kV/mm | ASTM D149 |
| Arc Resistance | 185 | sec | ASTM D495 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | | | UL 94 |
| 1.60 mm | V-0 | | UL 94 |
| 3.18 mm | V-0 | | UL 94 |
| 6.35 mm | V-0 | | UL 94 |
| Additional Information | | | |

Luminous Reflectance, minimum value: 92

| Injection | Nominal Value | Unit |
|------------------|---------------|------|
| Mold Temperature | 138 - 166 | °C |

NOTE

- Method A (short time)

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