

Technical Data Sheet

Bmc 6241

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description

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

| | |
|------------------------|---|
| Filler / Reinforcement | • Glass Fiber |
| Features | • High Strength |
| Uses | • Industrial Applications |
| Forms | • BMC - Bulk Molding Compound |
| Processing Method | • Compression Molding • Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|------------------------|-------------|
| Density / Specific Gravity | 1.93 | 1.93 g/cm ³ | ASTM D792 |
| Water Absorption (24 Hr, 73°F (23°C)) | 0.10 % | 0.10 % | ASTM D570 |
| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength (Yield, Compression Molded) | 8000 psi | 55.2 MPa | ASTM D638 |
| Flexural Strength (Compression Molded) | 18000 psi | 124 MPa | ASTM D790 |
| Compressive Strength | 26000 psi | 179 MPa | ASTM D695 |
| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Notched Izod Impact (Compression Molded) | 4.0 ft·lb/in | 210 J/m | ASTM D256 |
| Hardness | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Barcol Hardness | 40 | 40 | ASTM D2583 |
| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed, Compression Molded | 500 °F | 260 °C | ASTM D648 |
| Electrical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Dielectric Strength (Method A (short-time)) | 360 V/mil | 14 kV/mm | ASTM D149 |
| Arc Resistance | 185 sec | 185 sec | ASTM D495 |
| Flammability | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Flame Rating | | | UL 94 |
| 0.06 In (1.6 Mm) | V-0 | V-0 | |
| 0.13 In (3.2 Mm) | V-0 | V-0 | |
| 0.25 In (6.4 Mm) | V-0 | V-0 | |

Additional Information

Luminous Reflectance, minimum value: 92

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| Injection | Nominal Value (English) | Nominal Value (SI) |
|------------------|-------------------------|--------------------|
| Mold Temperature | 280 to 330 °F | 138 to 166 °C |

Notes

These are typical property values not to be construed as specification limits.