

## 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**

|                        |                                           |
|------------------------|-------------------------------------------|
| Material Status        | • Commercial: Active                      |
| Availability           | • North America                           |
| 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 <sup>3</sup> | 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<br>264 psi (1.8 MPa), Unannealed, Compression<br>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

## Technical Data Sheet



### Bmc 6241

Thermoset Polyester  
LyondellBasell Industries  
Engineering Plastics



| 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.

#### Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

#### Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

#### Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

© LyondellBasell Industries Holdings, B.V. 2024

#### Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

#### Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.