

## Technical Data Sheet



# Bmc HT12-1026

Thermoset Polyester  
LyondellBasell Industries  
Engineering Plastics

| General         |                           |                             |
|-----------------|---------------------------|-----------------------------|
| Material Status | • Commercial: Active      |                             |
| Availability    | • North America           |                             |
| Uses            | • Automotive Applications | • Automotive Under the Hood |
| Appearance      | • Black                   |                             |
| Forms           | • Pellets                 |                             |

| Physical                              | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|---------------------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity            | 1.85                    | 1.85 g/cm <sup>3</sup> | ASTM D792   |
| Mechanical                            | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Strength <sup>1</sup> (Yield) | 10800 psi               | 74.5 MPa               | ASTM D638   |
| Flexural Modulus                      | 1.90E+6 psi             | 13100 MPa              | ASTM D790   |
| Flexural Strength (Yield)             | 21500 psi               | 148 MPa                | ASTM D790   |
| Compressive Strength                  | 23600 psi               | 163 MPa                | ASTM D695   |
| Impact                                | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Unnotched Izod Impact                 | 6.1 ft·lb/in            | 330 J/m                | ASTM D4812  |
| Hardness                              | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Barcol Hardness                       | 33                      | 33                     | ASTM D2583  |
| Electrical                            | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Dielectric Strength                   | 370 V/mil               | 15 kV/mm               | ASTM D149   |
| Arc Resistance                        | 180 sec                 | 180 sec                | ASTM D495   |
| Flammability                          | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Flame Rating                          |                         |                        | UL 94       |
| 0.06 in (1.5 mm)                      | HB                      | HB                     |             |
| 0.09 in (2.2 mm)                      | HB                      | HB                     |             |
| 0.12 in (3.1 mm)                      | HB                      | HB                     |             |

| Additional Information                        |  |  |  |
|-----------------------------------------------|--|--|--|
| Barcol Hardness, ASTM D2583: 30 to 35         |  |  |  |
| UL Flame Rating, UL 94, 0.058 to 0.062 in: HB |  |  |  |
| UL Flame Rating, UL 94, 0.075 to 0.1 in: HB   |  |  |  |
| UL Flame Rating, UL 94, 0.120 to 0.125 in: HB |  |  |  |

### Notes

<sup>1</sup> Type I

### 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/>.

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