

## Technical Data Sheet

### Bmc 1050

Thermoset Polyester  
LyondellBasell Industries  
Engineering Plastics

| General                                                            |                          |                        |             |
|--------------------------------------------------------------------|--------------------------|------------------------|-------------|
| Features                                                           | • Good Thermal Stability |                        |             |
| Appearance                                                         | • Colors Available       |                        |             |
| Forms                                                              | • Pellets                |                        |             |
| Processing Method                                                  | • Extrusion              |                        |             |
| Physical                                                           | Nominal Value (English)  | Nominal Value (SI)     | Test Method |
| Density / Specific Gravity                                         | 1.99                     | 1.99 g/cm <sup>3</sup> | ASTM D792   |
| Water Absorption (24 Hr)                                           | 0.070 %                  | 0.070 %                | ASTM D570   |
| Mechanical                                                         | Nominal Value (English)  | Nominal Value (SI)     | Test Method |
| Tensile Strength (Yield)                                           | 5000 psi                 | 34.5 MPa               | ASTM D638   |
| Flexural Modulus                                                   | 2.10E+6 psi              | 14500 MPa              | ASTM D790   |
| Flexural Strength (Yield)                                          | 12700 psi                | 87.5 MPa               | ASTM D790   |
| Compressive Strength                                               | 22000 psi                | 152 MPa                | ASTM D695   |
| Impact                                                             | Nominal Value (English)  | Nominal Value (SI)     | Test Method |
| Notched Izod Impact                                                | 3.0 ft·lb/in             | 160 J/m                | ASTM D256   |
| Hardness                                                           | Nominal Value (English)  | Nominal Value (SI)     | Test Method |
| Barcol Hardness                                                    | 50                       | 50                     | ASTM D2583  |
| Thermal                                                            | Nominal Value (English)  | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load<br>264 Psi (1.8 Mpa), Unannealed | 500 °F                   | 260 °C                 | ASTM D648   |
| Electrical                                                         | Nominal Value (English)  | Nominal Value (SI)     | Test Method |
| Volume Resistivity                                                 | 1.5E+6 ohms·cm           | 1.5E+6 ohms·cm         | ASTM D257   |
| Dielectric Strength                                                | 400 V/mil                | 16 kV/mm               | ASTM D149   |
| Arc Resistance (0.0625 In (1.59 Mm))                               | 190 sec                  | 190 sec                | ASTM D495   |
| Comparative Tracking Index (CTI)<br>0.0625 In (1.59 Mm)            | 500 V                    | 500 V                  | UL 746A     |
| Flammability                                                       | Nominal Value (English)  | Nominal Value (SI)     | Test Method |
| Flame Rating (0.06 In (1.6 Mm))                                    | HB                       | HB                     | UL 94       |

### Notes

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