

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 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) 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.