

Technical Data Sheet

# Bmc 100

Thermoset Polyester  
LyondellBasell Industries  
Engineering Plastics

General	
Uses	• Electrical Parts
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.94	1.94 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	1.90E+6 psi	13100 MPa	ASTM D790
Flexural Strength (Yield)	13000 psi	89.6 MPa	ASTM D790
Compressive Strength	21000 psi	145 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	40	40	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	2.8E+16 ohms·cm	2.8E+16 ohms·cm	ASTM D257
Dielectric Strength	430 V/mil	17 kV/mm	ASTM D149
Arc Resistance (0.0625 In (1.59 Mm))	180 sec	180 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

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Injection	Nominal Value (English)	Nominal Value (SI)
Rear Temperature	90 to 110 °F	32 to 43 °C
Middle Temperature	90 to 110 °F	32 to 43 °C
Front Temperature	90 to 110 °F	32 to 43 °C
Mold Temperature	315 to 350 °F	157 to 177 °C
Injection Pressure	1000 psi	6.89 MPa
Clamp Tonnage	2.5 tons/in <sup>2</sup>	3.4 kN/cm <sup>2</sup>

**Notes**

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