

Technical Data Sheet

**Bmc 100**

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
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 ³	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 ²	3.4 kN/cm ²

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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