

Technical Data Sheet

**Bmc 800**

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

General				
Material Status	• Commercial: Active			
Availability	• North America			
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight			
Features	• Good Weather Resistance			
Uses	• Marine Applications • Pump Parts			
Appearance	• Colors Available			
Forms	• Pellets			
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method	
Density / Specific Gravity	1.85	1.84 g/cm ³	ASTM D792	
Water Absorption (24 hr)	0.050 %	0.050 %	ASTM D570	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method	
Tensile Strength (Yield)	6000 psi	41.4 MPa	ASTM D638	
Flexural Modulus	1.50E+6 psi	10300 MPa	ASTM D790	
Flexural Strength (Yield)	18000 psi	124 MPa	ASTM D790	
Compressive Strength	20000 psi	138 MPa	ASTM D695	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method	
Notched Izod Impact	5.0 ft·lb/in	270 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	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))	• V-0 • 5V	• V-0 • 5V	UL 94	

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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