

Technical Data Sheet

Bmc 800

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

General	
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.