

Technical Data Sheet

Bmc 902

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

General	
Filler / Reinforcement	• Glass Fiber
Uses	• Electric Motor Housings
Appearance	• Colors Available • Natural Color
Forms	• Pellets
Processing Method	• Encapsulating

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)	0.070 %	0.070 %	ASTM D570

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	3000 psi	20.7 MPa	ASTM D638
Flexural Modulus	1.00E+6 psi	6890 MPa	ASTM D790
Flexural Strength (Yield)	10000 psi	68.9 MPa	ASTM D790
Compressive Strength	16000 psi	110 MPa	ASTM D695

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	1.0 ft·lb/in	53 J/m	ASTM D256

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Barcol Hardness	30	30	ASTM D2583

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed	400 °F	204 °C	ASTM D648

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Volume Resistivity	1.5E+14 ohms·cm	1.5E+14 ohms·cm	ASTM D257
Dielectric Strength	410 V/mil	16 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))	V-0	V-0	UL 94

Notes

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