

Technical Data Sheet

**Bmc 200**

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description

BMC 200 is a high strength, low shrink molding compound. It can be supplied in bulk or extruded in pre-weighted slugs. Typical applications are circuit breakers, insulators, bobbins, electrical connectors and power tool housings.

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber		
Features	• Flame Retardant	• High Strength	• Low Shrinkage
Uses	• Electrical Housing	• Electrical Parts	• Handles
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.85 to 1.95	1.85 to 1.95 g/cm ³	ASTM D792
Water Absorption (24 hr, 73°F (23°C))	0.15 to 0.25 %	0.15 to 0.25 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	4000 to 6000 psi	27.6 to 41.4 MPa	ASTM D638
Flexural Modulus	1.80E+6 to 2.00E+6 psi	12400 to 13800 MPa	ASTM D790
Flexural Strength (Yield)	10000 to 15000 psi	68.9 to 103 MPa	ASTM D790
Compressive Strength	18000 to 20000 psi	124 to 138 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	2.0 to 4.0 ft-lb/in	110 to 210 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Barcol Hardness	40 to 50	40 to 50	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
Dielectric Strength			ASTM D149
Method A (Short-Time)	370 to 420 V/mil	15 to 17 kV/mm	
Method B (Step-by-Step)	350 to 370 V/mil	14 to 15 kV/mm	
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

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Injection	Nominal Value (English)	Nominal Value (SI)
Rear Temperature	280 to 330 °F	138 to 166 °C
Middle Temperature	280 to 330 °F	138 to 166 °C
Front Temperature	280 to 330 °F	138 to 166 °C
Mold Temperature	280 to 330 °F	138 to 166 °C

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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