

Technical Data Sheet

**Bmc 606**

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description

BMC 606 is a mineral filled, glass reinforced polyester compound suitable for compression, transfer and stuffer injection molding. It is characterized by good moldability, excellent impact strength, excellent overall electrical properties and flame resistance. Typical applications are circuit breakers, transformer bobbins, motor end bells and household appliances.

General

Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber/Mineral	
Features	• Flame Retardant • Good Electrical Properties	• Good Moldability • High Impact Resistance
Uses	• Appliances	• Electrical/Electronic Applications
Forms	• BMC - Bulk Molding Compound	
Processing Method	• Compression Molding	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.90	1.90 g/cm ³	ASTM D792
Water Absorption (24 hr, 73°F (23°C))	0.14 %	0.14 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, Compression Molded)	5500 psi	37.9 MPa	ASTM D638
Flexural Strength (Compression Molded)	16000 psi	110 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Compression Molded)	10 ft-lb/in	530 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, Compression Molded	500 °F	260 °C	ASTM D648
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Strength (Method A (Short-Time))	350 V/mil	14 kV/mm	ASTM D149
Arc Resistance	170 sec	170 sec	ASTM D495
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	V-0	V-0	UL 94

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Injection	Nominal Value (English)	Nominal Value (SI)
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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