

Technical Data Sheet

**Bmc 880**

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description

BMC 880 is a medium strength, low shrink molding compound designed for outdoor applications. This material is UL Listed 94-V0/5V and is UL approved for outdoor use. It can be supplied in bulk or extruded in pre-weighted slugs. Typical applications are outdoor lighting fixtures and grill shelves.

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Low Shrinkage • Medium Strength
Uses	• Outdoor Applications
Forms	• BMC - Bulk Molding Compound
Processing Method	• Compression Molding • Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.83	1.82 g/cm ³	ASTM D792
Water Absorption (24 hr, 73°F (23°C))	0.15 %	0.15 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, Compression Molded)	7000 psi	48.3 MPa	ASTM D638
Flexural Modulus (Compression Molded)	1.80E+6 psi	12400 MPa	ASTM D790
Flexural Strength (Compression Molded)	17500 psi	121 MPa	ASTM D790
Compressive Strength	18500 psi	128 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Compression Molded)	5.5 ft·lb/in	290 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Barcol Hardness	50	50	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
Arc Resistance	185 sec	185 sec	ASTM D495
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	• V-0 • 5V	• V-0 • 5V	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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