

Technical Data Sheet

**Bmc A50-EG**

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
Uses	• Appliances		
Appearance	• Natural Color		
Forms	• Pellets		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.65	1.65 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	8100 psi	55.8 MPa	ASTM D638
Flexural Modulus	780000 psi	5380 MPa	ASTM D790
Flexural Strength (Yield)	15800 psi	109 MPa	ASTM D790
Compressive Strength	18500 psi	128 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Unnotched Izod Impact	6.0 ft·lb/in	320 J/m	ASTM D4812
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Barcol Hardness	48	48	ASTM D2583
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Strength	420 V/mil	16 kV/mm	ASTM D149
Arc Resistance	188 sec	188 sec	ASTM D495
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.5 mm)	HB	HB	
0.09 in (2.2 mm)	HB	HB	
0.12 in (3.1 mm)	HB	HB	
Additional Information			
Barcol Hardness, ASTM D2583: 45 to 50			
UL Flame Rating, UL 94, 0.058 to 0.062 in: HB			
UL Flame Rating, UL 94, 0.075 to 0.1 in: HB			
UL Flame Rating, UL 94, 0.120 to 0.125 in: HB			

Notes

¹ Type I

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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