

Technical Data Sheet

**Bmc A50(XHS)**

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active
Availability	• North America
Features	• High Strength
Uses	• Electrical/Electronic Applications
Appearance	• Colors Available
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.89	1.89 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	9310 psi	64.2 MPa	ASTM D638
Flexural Modulus	1.80E+6 psi	12400 MPa	ASTM D790
Flexural Strength (Yield)	20100 psi	139 MPa	ASTM D790
Compressive Strength	18800 psi	130 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Unnotched Izod Impact	11 ft·lb/in	590 J/m	ASTM D4812
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Barcol Hardness	35	35	ASTM D2583
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Strength	400 V/mil	16 kV/mm	ASTM D149
Arc Resistance	186 sec	186 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)	5V	5V	

Additional Information

Barcol Hardness, ASTM D2583: 30 to 40
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: 5-V

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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