

Technical Data Sheet

**Bmc T45HT**

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
Uses	• Automotive Applications • Automotive Under the Hood		
Automotive Specifications	• GM GMP.UP.007		
Appearance	• Black		
Forms	• Pellets		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.79	1.79 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	12300 psi	84.6 MPa	ASTM D638
Flexural Modulus	2.10E+6 psi	14500 MPa	ASTM D790
Flexural Strength (Yield)	26300 psi	181 MPa	ASTM D790
Compressive Strength	29100 psi	200 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Unnotched Izod Impact	14 ft·lb/in	730 J/m	ASTM D4812
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Barcol Hardness	55	55	ASTM D2583
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Strength	380 V/mil	15 kV/mm	ASTM D149
Arc Resistance	180 sec	180 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: 50 to 60			
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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