

Technical Data Sheet



Bmc HT12-1027

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
Uses	• Automotive Applications • Automotive Under the Hood		
Appearance	• Black		
Forms	• Pellets		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.86	1.86 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	8910 psi	61.4 MPa	ASTM D638
Flexural Modulus	1.90E+6 psi	13100 MPa	ASTM D790
Flexural Strength (Yield)	25800 psi	178 MPa	ASTM D790
Compressive Strength	26700 psi	184 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Unnotched Izod Impact	8.7 ft·lb/in	460 J/m	ASTM D4812
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Barcol Hardness	33	33	ASTM D2583
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Strength	390 V/mil	15 kV/mm	ASTM D149
Arc Resistance	182 sec	182 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: 30 to 35			
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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