

Technical Data Sheet

**Bmc A50 (MS)**

Thermoset Polyester  
LyondellBasell Industries  
Engineering Plastics

General	
Uses	• Appliances
Appearance	• Colors Available
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.93	1.93 g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength <sup>1</sup> (Yield)	7900 psi	54.5 MPa	ASTM D638
Flexural Modulus	1.30E+6 psi	8960 MPa	ASTM D790
Flexural Strength (Yield)	16500 psi	114 MPa	ASTM D790
Compressive Strength	21500 psi	148 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	35	35	ASTM D2583
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Strength	390 V/mil	15 kV/mm	ASTM D149
Arc Resistance	191 sec	191 sec	ASTM D495
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 In (1.5 Mm)	V-0	V-0	
0.09 In (2.2 Mm)	V-0	V-0	
0.12 In (3.1 Mm)	V-0	V-0	

Additional Information	
Barcol Hardness, ASTM D2583: 30 to 40	
UL Flame Rating, UL 94, 0.058 to 0.062 in: V-0	
UL Flame Rating, UL 94, 0.075 to 0.1 in: V-0	
UL Flame Rating, UL 94, 0.120 to 0.125 in: V-0	

**Notes**  
<sup>1</sup> Type I

**Notes**  
These are typical property values not to be construed as specification limits.