

Technical Data Sheet

# Bmc A50-EG

Thermoset Polyester  
LyondellBasell Industries  
Engineering Plastics

General	
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 <sup>3</sup>	ASTM D792

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength <sup>1</sup> (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**  
<sup>1</sup> Type I

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