

Technical Data Sheet

Bmc 6241

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description

BMC 6241 is a glass fiber-reinforced material formulated specifically for molding of industrial lighting reflectors where adequate strength is required along with a high reflectivity. It is available in extruded performs in weight and diameter tailored to meet the molder's requirements.

General

Filler / Reinforcement	• Glass Fiber	
Features	• High Strength	
Uses	• Industrial Applications	
Forms	• BMC - Bulk Molding Compound	
Processing Method	• Compression Molding	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.93	1.93 g/cm ³	ASTM D792
Water Absorption (24 Hr, 73°F (23°C))	0.10 %	0.10 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, Compression Molded)	8000 psi	55.2 MPa	ASTM D638
Flexural Strength (Compression Molded)	18000 psi	124 MPa	ASTM D790
Compressive Strength	26000 psi	179 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Compression Molded)	4.0 ft·lb/in	210 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Barcol Hardness	40	40	ASTM D2583
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed, Compression Molded	500 °F	260 °C	ASTM D648
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Strength (Method A (short-time))	360 V/mil	14 kV/mm	ASTM D149
Arc Resistance	185 sec	185 sec	ASTM D495
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 In (1.6 Mm)	V-0	V-0	
0.13 In (3.2 Mm)	V-0	V-0	
0.25 In (6.4 Mm)	V-0	V-0	

Additional Information

Luminous Reflectance, minimum value: 92

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Injection	Nominal Value (English)	Nominal Value (SI)
Mold Temperature	280 to 330 °F	138 to 166 °C

Notes

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