

Technical Data Sheet

**Bmc 945**

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description

BMC 945 is an ESD level Conductive grade of A Schulman and is suitable for compression, transfer and stuffer injection molding. It is characterized by excellent flow and controlled reactivity and is well suited for injection molding. Typical applications may include electronic enclosures, computer chip trays and storage boxes, and other applications requiring ESD level conductivity.

General

Material Status	• Commercial: Active
Availability	• North America
Features	• ESD Protection • High Flow
Uses	• Electrical/Electronic Applications
Forms	• BMC - Bulk Molding Compound
Processing Method	• Compression Molding • Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.85	1.85 g/cm ³	ASTM D792
Water Absorption (24 hr, 73°F (23°C))	0.18 %	0.18 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, Compression Molded)	6750 psi	46.5 MPa	ASTM D638
Flexural Modulus (Injection Molded)	1.90E+6 psi	13100 MPa	ASTM D790
Flexural Strength (Injection Molded)	13000 psi	89.6 MPa	ASTM D790
Compressive Strength	19000 psi	131 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Injection Molded)	2.5 ft·lb/in	130 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Barcol Hardness	50	50	ASTM D2583
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, Injection Molded	450 °F	232 °C	ASTM D648
Glass Transition Temperature	329 °F	165 °C	ASTM E1356
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	1.0E+7 ohms	1.0E+7 ohms	ASTM D257

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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.

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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