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		
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/cm³	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			ASTM D648
264 Psi (1.8 Mpa), Unannealed, Injection Molded	450 °F	232 °C	
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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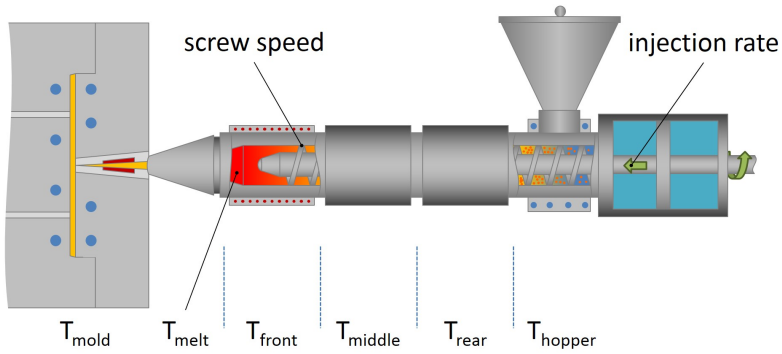

Injection	Nominal Value (English)	Nominal Value (SI)
Mold Temperature	280 to 330 °F	138 to 166 °C

Notes

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