

Bulk Molding Compounds BMC 945 Conductive Grade Bulk Molding Compound

Category : Polymer , Thermoset , Polyester, TS , Thermoset Polyester Glass and Mineral Filled BMC

Material Notes:

BMC 945 is an ESD level Conductive grade of Bulk Molding Compound 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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-945-Conductive-Grade-Bulk-Molding-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.95 g/cc	1.75 - 1.95 g/cc	
Water Absorption	0.14 - 0.21 %	0.14 - 0.21 %	24 hours, 23°C
Linear Mold Shrinkage	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	45 - 55	45 - 55	
Tensile Strength, Ultimate	41.4 - 51.7 MPa	6000 - 7500 psi	
Flexural Strength	82.7 - 96.5 MPa	12000 - 14000 psi	
Flexural Modulus	12.4 - 13.8 GPa	1800 - 2000 ksi	
Compressive Strength	124 - 138 MPa	18000 - 20000 psi	
Izod Impact, Notched	1.07 - 1.60 J/cm	2.00 - 3.00 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 232 °C	>= 450 °F	
Glass Transition Temp, Tg	>= 165 °C	>= 329 °F	
Flammability, UL94	V-0 @Thickness 3.17 mm	V-0 @Thickness 0.125 in	

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	1e+05 - 1.00e+7 ohm	1e+05 - 1.00e+7 ohm	

Processing Properties	Metric	English	Comments
Mold Temperature	138 - 166 °C	280 - 330 °F	

Processing Properties

Metric

English

Comments

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