

BMC 945

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

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.

General Information			
Features	ESD Protection		
	High Flow		
Uses	Electrical/Electronic Applications		
Forms	BMC - Bulk Molding Compound		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.85	g/cm ³	ASTM D792
Molding Shrinkage - Flow (Injection Molded)	1.0E-4 to 5.0E-4	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.18	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	50		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	46.5	MPa	ASTM D638
Flexural Modulus (Injection Molded)	13100	MPa	ASTM D790
Flexural Strength (Injection Molded)	89.6	MPa	ASTM D790
Compressive Strength	131	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	232	°C	ASTM D648
Glass Transition Temperature	165	°C	ASTM E1356
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+7	ohms	ASTM D257
Injection	Nominal Value	Unit	
Mold Temperature	138 to 166	°C	

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