

BMC 102

Thermoset Polyester
Bulk Molding Compounds, Inc.

Message:

BMC 102 is a Thermoset Polyester product. It can be processed by injection molding and is available in North America. Typical application: Electrical/Electronic Applications. Primary characteristic: flame rated.

General Information			
Uses	Electrical Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.94	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.40	%	ASTM D955
Water Absorption (24 hr)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	34.5	MPa	ASTM D638
Flexural Modulus	13100	MPa	ASTM D790
Flexural Strength (Yield)	89.6	MPa	ASTM D790
Compressive Strength	145	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.8E+16	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Arc Resistance (1.59 mm)	180	sec	ASTM D495
Comparative Tracking Index (CTI) (1.59 mm)	500	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	32.2 to 43.3	°C	
Middle Temperature	32.2 to 43.3	°C	
Front Temperature	32.2 to 43.3	°C	
Mold Temperature	157 to 177	°C	
Injection Pressure	6.89	MPa	

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