

BMC 300

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

BMC 300 is a general purpose, mineral filled, glass fiber-reinforced polyester that is suitable for compression, transfer and stuffer injection molding. Our Granite-X series of molding compounds belongs to this family of materials. As with all other BMCI compounds, this series can be supplied in logs, slugs or bulk and can be customized for specific applications. Typical applications include sinks, grill shelves, dishware and medical applications.

General Information			
Filler / Reinforcement	Glass Fiber		
	Mineral		
Features	General Purpose		
	Low Shrinkage		
Uses	Kitchenware		
	Medical Devices		
	Outdoor Applications		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75 to 2.04	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.30	%	ASTM D955
Water Absorption (24 hr)	0.10 to 0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40 to 50		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	34.5 to 68.9	MPa	ASTM D638
Flexural Modulus	11700 to 13100	MPa	ASTM D790
Flexural Strength (Yield)	68.9 to 159	MPa	ASTM D790
Compressive Strength	124 to 152	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110 to 640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	218 to 260	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	12 to 15	kV/mm	ASTM D149
Arc Resistance (4.47 mm)	185	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method

Flame Rating (4.47 mm)	HB	UL 94
Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	138 to 166	°C
Cylinder Zone 2 Temp.	138 to 166	°C
Cylinder Zone 3 Temp.	138 to 166	°C
Cylinder Zone 4 Temp.	138 to 166	°C
Cylinder Zone 5 Temp.	138 to 166	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

