

Technical Data Sheet

Bmc 300

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description

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.

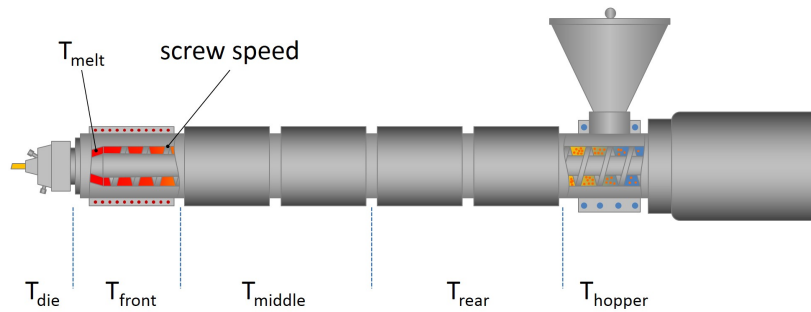
General			
Filler / Reinforcement	• Glass Fiber	• Mineral	
Features	• General Purpose	• Low Shrinkage	
Uses	• Kitchenware	• Medical Devices	• Outdoor Applications
Forms	• Pellets		
Processing Method	• Extrusion		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.75 to 2.05	1.75 to 2.04 g/cm ³	ASTM D792
Water Absorption (24 Hr)	0.10 to 0.20 %	0.10 to 0.20 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	5000 to 10000 psi	34.5 to 68.9 MPa	ASTM D638
Flexural Modulus	1.70E+6 to 1.90E+6 psi	11700 to 13100 MPa	ASTM D790
Flexural Strength (Yield)	10000 to 23000 psi	68.9 to 159 MPa	ASTM D790
Compressive Strength	18000 to 22000 psi	124 to 152 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	2.0 to 12 ft·lb/in	110 to 640 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Barcol Hardness	40 to 50	40 to 50	ASTM D2583
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed	425 to 500 °F	218 to 260 °C	ASTM D648
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Dielectric Strength	320 to 370 V/mil	12 to 15 kV/mm	ASTM D149
Arc Resistance (0.176 In (4.47 Mm))	185 sec	185 sec	ASTM D495
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.18 In (4.5 Mm))	HB	HB	UL 94

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Extrusion	Nominal Value (English)	Nominal Value (SI)
Cylinder Zone 1 Temp.	280 to 330 °F	138 to 166 °C
Cylinder Zone 2 Temp.	280 to 330 °F	138 to 166 °C
Cylinder Zone 3 Temp.	280 to 330 °F	138 to 166 °C
Cylinder Zone 4 Temp.	280 to 330 °F	138 to 166 °C
Cylinder Zone 5 Temp.	280 to 330 °F	138 to 166 °C

Notes

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