Technical Data Sheet

Bmc 200

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description
BMC 200 is a high strength, low shrink molding compound. It can be supplied in bulk or extruded in pre-weighted slugs. Typical applications are circuit breakers, insulators, bobbins, electrical connectors and power tool housings.

General			
Filler / Reinforcement	• Glass Fiber		
Features	• Flame Retardant	• High Strength	• Low Shrinkage
Uses	• Electrical Housing	• Electrical Parts	• Handles
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.85 to 1.95	1.85 to 1.95 g/cm³	ASTM D792
Water Absorption (24 Hr, 73°f (23°c))	0.15 to 0.25 %	0.15 to 0.25 %	ASTM D570
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Yield)	4000 to 6000 psi	27.6 to 41.4 MPa	ASTM D638
Flexural Modulus	1.80E+6 to 2.00E+6 psi	12400 to 13800 MPa	ASTM D790
Flexural Strength (Yield)	10000 to 15000 psi	68.9 to 103 MPa	ASTM D790
Compressive Strength	18000 to 20000 psi	124 to 138 MPa	ASTM D695
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact	2.0 to 4.0 ft·lb/in	110 to 210 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			ASTM D648
264 Psi (1.8 Mpa), Unannealed	> 500 °F	> 260 °C	
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Dielectric Strength			ASTM D149
Method A (short-time)	370 to 420 V/mil	15 to 17 kV/mm	
Method B (step-by-step)	350 to 370 V/mil	14 to 15 kV/mm	
Arc Resistance (0.0625 In (1.59 Mm))	> 180 sec	> 180 sec	ASTM D495
Comparative Tracking Index (CTI)			UL 746A
0.0625 In (1.59 Mm)	500 V	500 V	
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flame Rating (0.06 In (1.6 Mm))	V-0	V-0	UL 94

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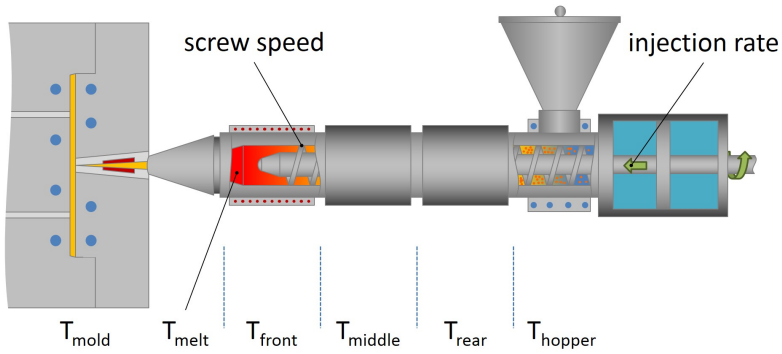

Injection	Nominal Value (English)	Nominal Value (SI)
Rear Temperature	280 to 330 °F	138 to 166 °C
Middle Temperature	280 to 330 °F	138 to 166 °C
Front Temperature	280 to 330 °F	138 to 166 °C
Mold Temperature	280 to 330 °F	138 to 166 °C

Notes

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