Technical Data Sheet

Bmc 3001H

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description

BMC 3001H molding compound is a mineral filled, glass-fiber reinforced alkyd compound suitable for compression and transfer molding. Because of its soft flow, it is also used extensively in cold spur molding. This is a general-purpose material with good creep resistance and electrical properties. Typical applications include brush holders, voltage regulator housings and relay bases. BMC 3001H molding compound is produced in extruded form in a range of industrial colors. It is available in logs up to 12 inches in length or as precut slugs, of specific weight, in diameters from ¾ " to 2 7/8 ". Within this range smaller diameters are supplied as multiple extrusions and weight tolerances are plus or minus 5% up to a maximum of of plus 15 grams.

General

Filler / Reinforcement	• Glass\Mineral		
Features	• Creep Resistant	• General Purpose	• Good Electrical Properties
Uses	• Electrical/Electronic Applications	• General Purpose	
Automotive Specifications	• CHRYSLER MS-DA-17		
Appearance	• Colors Available		
Forms	• BMC - Bulk Molding Compound		
Processing Method	• Compression Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	2.15	2.14 g/cm³	ASTM D792
Water Absorption (24 Hr, 73°f (23°c))	0.19 %	0.19 %	ASTM D570
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flexural Strength (Compression Molded)	17500 psi	121 MPa	ASTM D790
Compressive Strength	23000 psi	159 MPa	ASTM D695
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (Compression Molded)	3.0 ft·lb/in	160 J/m	ASTM D256
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Barcol Hardness	65	65	ASTM D2583
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 Psi (1.8 Mpa), Unannealed, Compression Molded	500 °F	260 °C	
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Dielectric Strength (Method A (short-time))	330 V/mil	13 kV/mm	ASTM D149
Dielectric Constant (60 Hz)	6.70	6.70	ASTM D150
Dissipation Factor (60 Hz)	0.020	0.020	ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index (CTI)	500 V	500 V	UL 746A
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flame Rating			UL 94
0.06 In (1.6 Mm)	HB	HB	
0.13 In (3.2 Mm)	HB	HB	
0.25 In (6.4 Mm)	HB	HB	

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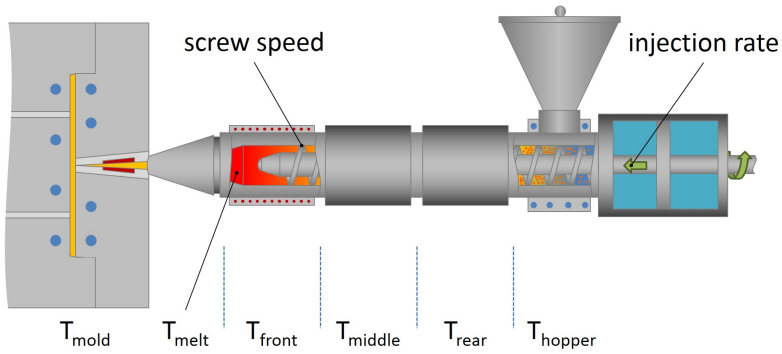

Injection	Nominal Value (English)	Nominal Value (SI)
Mold Temperature	280 to 330 °F	138 to 166 °C

Notes

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