Technical Data Sheet

Bmc 2274

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description
BMC 2274 molding compound is a mineral filled, glass-fiber-reinforced polyester compound suitable for compression transfer and stuffer injection molding. It is a general-purpose material with medium impact strength and good overall electrical properties. Typical applications include slip rings, commutators and brush holders. BMC 2274 molding compound is produced in extruded form in a range on industrial colors. It is available in logs up to 12 inches in length or as precut slugs, of specific weight, in diameters from 1" to 2 ½". Within this range, smaller diameters are supplied as multiple extrusions and weight tolerances are plus or minus 5% up to a maximu m of plus or minus 15 grams.

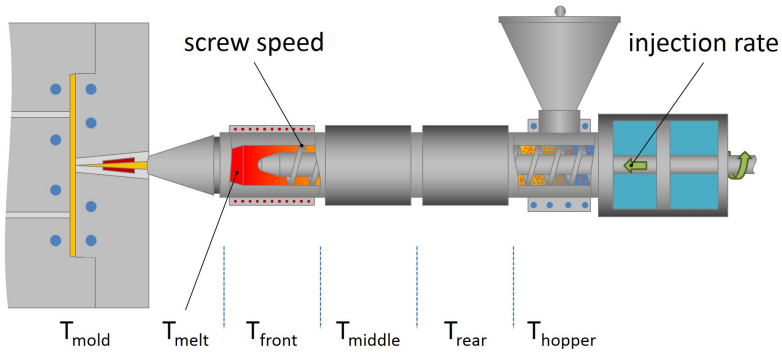
General		
Filler / Reinforcement	• Glass\Mineral	
Features	• General Purpose	• Medium Impact Resistance
Uses	• Electrical/Electronic Applications	• General Purpose
Automotive Specifications	• CHRYSLER MS-DA-17	
Appearance	• Colors Available	
Forms	• BMC - Bulk Molding Compound	
Processing Method	• Compression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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	2.02	2.01 g/cm³	ASTM D792
Water Absorption (24 Hr, 73°f (23°c))	0.13 %	0.13 %	ASTM D570
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Yield, Compression Molded)	6000 psi	41.4 MPa	ASTM D638
Flexural Strength (Compression Molded)	18000 psi	124 MPa	ASTM D790
Compressive Strength	24000 psi	165 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	45	45	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
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index (CTI)	600 V	600 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	

Technical Data Sheet

Bmc 2274

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics



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.