

## Bulk Molding Compounds BMC 1454 for Injection Molding Circuit Breakers

Category : Polymer , Thermoset , Polyester, TS

### Material Notes:

BMC 1454 is a special low-cost material developed specifically for injection molding circuit breakers. It has considerable flame, arc and track resistance. BMC 1454 is a medium strength material with excellent flexural strength necessary to meet the arc interruption test required for circuit breakers. UL® recognized. This material was formerly known as Glastic® 1454.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Bulk-Molding-Compounds-BMC-1454-for-Injection-Molding-Circuit-Breakers.php](http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-1454-for-Injection-Molding-Circuit-Breakers.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.88 - 1.94 g/cc	1.88 - 1.94 g/cc	
Water Absorption	0.070 - 0.12 %	0.070 - 0.12 %	24 hours, 23°C
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	40 - 50	40 - 50	
Tensile Strength, Ultimate	34.5 - 41.4 MPa	5000 - 6000 psi	
Flexural Strength	75.8 - 89.6 MPa	11000 - 13000 psi	
Flexural Modulus	9.65 - 11.0 GPa	1400 - 1600 ksi	
Compressive Strength	159 - 172 MPa	23000 - 25000 psi	
Izod Impact, Notched	2.40 - 2.94 J/cm	4.50 - 5.50 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Strength	20.4 kV/mm	517 kV/in	Short Time
Dissipation Factor	0.027	0.027	Condition A
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.058	0.058	Condition D
	@Frequency 60 Hz	@Frequency 60 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.154	0.154	Condition D
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	213 sec	213 sec	
Track Resistance	25 sec	25 sec	

Processing Properties	Metric	English	Comments
Mold Temperature	138 - 166 °C	280 - 330 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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