

## Bulk Molding Compounds BMC 1423 Wear Resistant, Electrical Grade

Category : Polymer , Thermoset , Polyester, TS

### Material Notes:

BMC 1423 is a wear-resistant electrical grade material used in applications where there are moving parts. Best anti-wear properties are exhibited when used in conjunction with mating parts molded from BMC 1423 materials. Has moderately high physical strengths combined with excellent electrical properties. UL® recognized. This material was formerly known as Glastic® 1423.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Bulk-Molding-Compounds-BMC-1423-Wear-Resistant-Electrical-Grade.php](http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-1423-Wear-Resistant-Electrical-Grade.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.82 - 1.88 g/cc	1.82 - 1.88 g/cc	
Water Absorption	0.15 - 0.20 %	0.15 - 0.20 %	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	41.4 - 48.3 MPa	6000 - 7000 psi	
Flexural Strength	103 - 117 MPa	15000 - 17000 psi	
Flexural Modulus	8.96 - 10.3 GPa	1300 - 1500 ksi	
Compressive Strength	124 - 138 MPa	18000 - 20000 psi	
Izod Impact, Notched	1.60 - 2.14 J/cm	3.00 - 4.00 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	16.6 kV/mm	422 kV/in	Short Time
Dissipation Factor	0.015	0.015	Condition A
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.017	0.017	Condition A
	@Frequency 60 Hz	@Frequency 60 Hz	

Electrical Properties	0.037 Metric	0.037 English	Comments
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.134	0.134	Condition D
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	189 sec	189 sec	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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