

## Bulk Molding Compounds BMC 1410 Electrical Grade

Category : Polymer , Thermoset , Polyester, TS

### Material Notes:

BMC 1410 is a high-strength electrical grade material with excellent flammability resistance. In most applications, this material is competitive with SMC. Equal performance at a lower cost. Normally compression molded, but has been successfully injection molded in a number of applications. UL® recognized. This material was formerly known as Glastic® 1410.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Bulk-Molding-Compounds-BMC-1410-Electrical-Grade.php](http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-1410-Electrical-Grade.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.83 - 1.89 g/cc	1.83 - 1.89 g/cc	
Water Absorption	0.18 - 0.24 %	0.18 - 0.24 %	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	27.6 - 34.5 MPa	4000 - 5000 psi	
Flexural Strength	179 - 193 MPa	26000 - 28000 psi	
Flexural Modulus	15.2 - 16.5 GPa	2200 - 2400 ksi	
Compressive Strength	138 - 152 MPa	20000 - 22000 psi	
Izod Impact, Notched	6.41 - 8.54 J/cm	12.0 - 16.0 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	19.1 kV/mm	486 kV/in	Short Time
Dissipation Factor	0.031 @Frequency 60 Hz	0.031 @Frequency 60 Hz	Condition A
	0.055 @Frequency 60 Hz	0.055 @Frequency 60 Hz	Condition D

Electrical Properties	0.187 Metric	0.187 English	Comments
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.195	0.195	Condition D
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	185 sec	185 sec	

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

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