

Bulk Molding Compounds BMC 1412 Flame and Track Resistant

Category : Polymer , Thermoset , Polyester, TS

Material Notes:

BMC 1412 is an extremely versatile material. Flame and track resistant, low shrink for close dimensional control and surface smoothness, high physical properties. Developed for injection molding, but also suitable for compression or transfer applications. BMC 1412 is approved for Mil specifications, MAI-30, MAI-60 and MAT-30. UL® recognized. This material was formerly known as Glastic® 1412.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-BMC-1412-Flame-and-Track-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 - 1.80 g/cc	1.75 - 1.80 g/cc	
Water Absorption	0.12 - 0.18 %	0.12 - 0.18 %	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	159 - 172 MPa	23000 - 25000 psi	
Flexural Modulus	13.1 - 13.8 GPa	1900 - 2000 ksi	
Compressive Strength	165 - 179 MPa	24000 - 26000 psi	
Izod Impact, Notched	4.27 - 4.81 J/cm	8.00 - 9.00 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	
UL RTI, Electrical	160 °C	320 °F	
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Strength	19.3 kV/mm	490 kV/in	Short Time
Dissipation Factor	0.018	0.018	Condition A
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.023	0.023	Condition A

Electrical Properties	@Frequency 60 Hz Metric	@Frequency 60 Hz English	Comments
	0.039	0.039	Condition D
	@Frequency 60 Hz	@Frequency 60 Hz	
	0.152	0.152	Condition D
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	192 sec	192 sec	

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

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