Glastic® 1410

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

Grade 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.

General Information	
Filler / Reinforcement	Glass fiber reinforced material
Features	High strength Insulation Good electrical performance Flame retardancy
Uses	Electrical/Electronic Applications Electronic insulation
Appearance	White Black Red Available colors brownish yellow
Forms	BMC-Block Molding Compound
Processing Method	Compression molding Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.86	g/cm³	ASTM D792
Water Absorption (24 hr)	0.19	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Compression Molded)	13800	MPa	ASTM D638
Tensile Strength (Yield, Compression Molded)	33.2	MPa	ASTM D638
Flexural Modulus (Compression Molded)	16500	MPa	ASTM D790
Flexural Strength (Compression Molded)	192	MPa	ASTM D790
Compressive Strength	146	MPa	ASTM D695
Shear Strength	82.6	MPa	ASTM D732
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	800	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	260	°C	ASTM D648
RTI Elec	54.4	°C	UL 746
RTI	54.4	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	7.9E+14	ohms	ASTM D257
Dielectric Strength [1]	19	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
	7.50		
60 Hz	6.90		ASTM D150
	5.10		
1 MHz	5.20		ASTM D150
Dissipation Factor			ASTM D150
	0.055		
60 Hz	0.031		ASTM D150
	0.19		
1 MHz	0.20		ASTM D150
Arc Resistance	185	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-0		UL 94

Additional Information

Permittivity, ASTM D150, 60 Hz, Condition A: 6.9Permittivity, ASTM D150, 60 Hz, Condition D: 7.5Permittivity, ASTM D150, 1 MHz, Condition A: 5.1Permittivity, ASTM D150, 1 MHz, Condition D: 5.1Insulation Resistance, ASTM D257, Condition A: 78.5 Ohm x 10e13Insulation Resistance, ASTM D257, Condition C: 2.8 Ohm x 10e13Track Resistance, ASTM D2303: 285 minutesDissipation Factor, ASTM D150, 60 Hz, Condition A: 0.031Dissipation Factor, ASTM D150, 60 Hz, Condition D: 0.055Dissipation Factor, ASTM D150, 1 MHz, Condition A: 0.187Dissipation Factor, ASTM D150, 1 MHz, Condition D: 0.195

NOTE

1.	Method A (short time)

Recommended distributors for this material

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