Glastic® 1412

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

Grade 1412 is one of the most versatile and universal molding materials available anywhere. 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. Glastic's highest temperature material, Grade 1412 is truly a premium material at a reasonable cost. Grade 1412 is approved for Mil specifications MAI-30, MAI-60 and MAT-30.

General Information	
Filler / Reinforcement	Glass fiber reinforced material
Features	Insulation Good electrical performance Track Resistance Low shrinkage Flame retardancy
Uses	Electrical/Electronic Applications Electrical housing Home appliance components Application in Automobile Field
Agency Ratings	MIL M-14, Type MAI-30 MIL M-14, Type MAI-60 MIL M-14, Type MAT-30
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	1.77	g/cm³	ASTM D792
Water Absorption (24 hr)	0.16	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Compression Molded)	12400	MPa	ASTM D638

Tensile Strength (Yield, Compression Molded)	44.6	MPa	ASTM D638
Flexural Modulus (Compression Molded)	13100	MPa	ASTM D790
Flexural Strength (Compression Molded)	166	MPa	ASTM D790
Compressive Strength	178	MPa	ASTM D695
Shear Strength	64.3	MPa	ASTM D732
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	470	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
RTI Elec	160	°C	UL 746
RTI	160	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
	2.0E+13		
Surface Resistivity	6.8E+14	ohms	ASTM D257
Dielectric Strength [1]	19	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
	5.70		
60 Hz	5.30		ASTM D150
1 MHz	4.30		ASTM D150
Dissipation Factor			ASTM D150
	0.039		
60 Hz	0.018		ASTM D150
	0.023		
1 MHz	0.15		ASTM D150
Arc Resistance	192	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-0		UL 94
Additional Information			

Permittivity, ASTM D150, 60 Hz, Condition A: 5.3Permittivity, ASTM D150, 60 Hz, Condition D: 5.7Permittivity, ASTM D150, 1 MHz, Condition A: 4.3Permittivity, ASTM D150, 1 MHz, Condition D: 4.3Insulation Resistance, ASTM D257, Condition A: 68.2 Ohm x 10e13Insulation Resistance, ASTM D257, Condition C: 2.0 Ohm x 10e13Track Resistance, ASTM D2303: 1500 minutesDissipation Factor, ASTM D150, 60 Hz, Condition A: 0.018Dissipation Factor, ASTM D150, 60 Hz, Condition D: 0.039Dissipation Factor, ASTM D150, 1 MHz, Condition A: 0.023Dissipation Factor, ASTM D150, 1 MHz, Condition D: 0.152

NOTE

1.	Method A (short time)

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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