Glastic® 1423

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

Grade 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 Glastic® Grade 1412 materials. Has moderately high physical strengths combined with excellent electrical properties.

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.84	g/cm³	ASTM D792
Water Absorption (24 hr)	0.18	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (Compression Molded)	12400	MPa	ASTM D638
Tensile Strength (Yield, Compression Molded)	47.3	MPa	ASTM D638
Flexural Modulus (Compression Molded)	9650	MPa	ASTM D790
Flexural Strength (Compression Molded)	112	MPa	ASTM D790
Compressive Strength	135	MPa	ASTM D695
Shear Strength	40.8	MPa	ASTM D732
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (Compression Molded)	210	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	1.8E+15	ohms	ASTM D257
Dielectric Strength [1]	17	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
	5.70		
60 Hz	5.30		ASTM D150
	4.40		
1 MHz	4.70		ASTM D150
Dissipation Factor			ASTM D150
	0.037		
60 Hz	0.017		ASTM D150
	0.015		
1 MHz	0.13		ASTM D150
Arc Resistance	189	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: 4.4Permittivity, ASTM D150, 1 MHz, Condition D: 4.7Insulation Resistance, ASTM D257, Condition A: 179 Ohm x 10e13Insulation Resistance, ASTM D257, Condition C: 1.8 Ohm x 10e13Track Resistance, ASTM D2303: 1510 minutesDissipation Factor, ASTM D150, 60 Hz, Condition A: 0.017Dissipation Factor, ASTM D150, 60 Hz, Condition D: 0.037Dissipation Factor, ASTM D150, 1 MHz, Condition A: 0.015Dissipation Factor, ASTM D150, 1 MHz, Condition D: 0.134

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