

Glastic® 1603

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

Grade 1603 is a multi-purpose, moderate strength, low-cost material that is suitable for injection, compression and transfer molding.

General Information	
Filler / Reinforcement	Glass fiber reinforced material
Features	Track Resistance Flame retardancy
Uses	Bushing Isolated insulator Automotive Electronics Application in Automobile Field
UL File Number	E81713
Appearance	White Black Red Available colors
Forms	Particle
Processing Method	Compression molding Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.98	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.19	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	15900	MPa	ASTM D638
Tensile Strength (Yield, Compression Molded)	42.9	MPa	ASTM D638
Flexural Modulus (Compression Molded)	12400	MPa	ASTM D790
Flexural Strength (Compression Molded)	89.7	MPa	ASTM D790
Compressive Strength	206	MPa	ASTM D695
Shear Strength	50.9	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	230	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
	1.4E+14		
Surface Resistivity	1.2E+15	ohms	ASTM D257
Dielectric Strength ¹	17	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
	6.80		
60 Hz	6.30		ASTM D150
	5.20		
1 MHz	5.70		ASTM D150
Dissipation Factor			ASTM D150
	0.027		
60 Hz	0.015		ASTM D150
	0.090		
1 MHz	0.12		ASTM D150
Arc Resistance	180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information			
Permittivity, ASTM D150, 60 Hz, Condition A: 6.3Permittivity, ASTM D150, 60 Hz, Condition D: 6.8Permittivity, ASTM D150, 1 MHz, Condition A: 5.2Permittivity, ASTM D150, 1 MHz, Condition D: 5.7Insulation Resistance, ASTM D257, Condition A: 122 Ohm x 10e13Insulation Resistance, ASTM D257, Condition C: 13.9 Ohm x 10e13Track Resistance, ASTM D2303: 500 minutesDissipation Factor, ASTM D150, 60 Hz, Condition A: 0.015Dissipation Factor, ASTM D150, 60 Hz, Condition D: 0.027Dissipation Factor, ASTM D150, 1 MHz, Condition A: 0.099Dissipation Factor, ASTM D150, 1 MHz, Condition D: 0.124			
NOTE			
1.	Method A (short time)		

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