

Glastic® 1608

Thermoset Polyester

Bulk Molding Compounds, Inc.

Message:

Grade 1608 is a very high-strength, general purpose, corrosion-resistant material. Recommended for compression molding only. UL® Recognized. Meets FDA requirements for food contact.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	High strength		
	Good corrosion resistance		
	General		
Uses	Pump parts		
	Valve/valve components		
	Engineering accessories		
	Container		
Appearance	Black		
	Available colors		
	brownish yellow		
Forms	BMC-Block Molding Compound		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.78	g/cm ³	ASTM D792
Water Absorption (24 hr)	1.8	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	14500	MPa	ASTM D638
Tensile Strength (Yield, Compression Molded)	38.2	MPa	ASTM D638
Flexural Modulus (Compression Molded)	14500	MPa	ASTM D790
Flexural Strength (Compression Molded)	201	MPa	ASTM D790
Compressive Strength	243	MPa	ASTM D695
Shear Strength	77.6	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	520	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	260	°C	ASTM D648

Thermal Conductivity	0.26	W/m/K	ASTM C177
RTI Elec	54.4	°C	UL 746
RTI	54.4	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
	8.3E+13		
Surface Resistivity	1.5E+15	ohms	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
	5.40		
60 Hz	4.90		ASTM D150
	4.30		
1 MHz	4.50		ASTM D150
Dissipation Factor			ASTM D150
	0.026		
60 Hz	5.0E-3		ASTM D150
	8.0E-3		
1 MHz	0.12		ASTM D150
Arc Resistance	104	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Oxygen Index	22	%	ASTM D2863
Additional Information			
Permittivity, ASTM D150, 60 Hz, Condition A: 4.9Permittivity, ASTM D150, 60 Hz, Condition D: 5.4Permittivity, ASTM D150, 1 MHz, Condition A: 4.3Permittivity, ASTM D150, 1 MHz, Condition D: 4.5Insulation Resistance, ASTM D257, Condition A: 150 Ohm x 10e13Insulation Resistance, ASTM D257, Condition C: 8.3 Ohm x 10e13Track Resistance, ASTM D2303: 105 minutesDissipation Factor, ASTM D150, 60 Hz, Condition A: 0.005Dissipation Factor, ASTM D150, 60 Hz, Condition D: 0.026Dissipation Factor, ASTM D150, 1 MHz, Condition A: 0.008Dissipation Factor, ASTM D150, 1 MHz, Condition D: 0.115			
NOTE			
1.	Method A (short time)		

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