

# Glasrod MTS

Thermoset Polyester

Glastic Corporation

## Message:

Glasrod MTS is a solid rod and bar fiberglass-reinforced thermoset polyester shape that exhibits properties desirable for a wide range of structural and electrical applications. Most economical system for electrical use; designed for 155°C service. 50,000 psi tensile and 80,000 psi flexural strength. Available in Rectangular, Square, "A" and Dogbone shapes.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability		
	High strength		
	Solvent resistance		
	Heat resistance, high		
	Low or no water absorption		
Uses	Bar		
	Electrical/Electronic Applications		
	Components		
	Insulating material		
Appearance	Red		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.00	g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 hr)	0.25	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.38E+6	MPa	ASTM D638
Tensile Strength (Yield)	345	MPa	ASTM D638
Flexural Modulus	20700	MPa	ASTM D790
Flexural Strength (Yield)	552	MPa	ASTM D790
Shear Strength	13.8	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	2100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	9.0E-6	cm/cm/°C	ASTM D696
Thermal Conductivity	0.29	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (25.4 mm, in Oil)	2.8	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	5.00		ASTM D150
Arc Resistance	130	sec	ASTM D495

#### Additional Information

The value listed as Shear Strength ASTM D732 was tested in accordance with ASTM D3914. Insulation Resistance, ASTM D257:  $8.3 \times 10^{11}$  ohms Compressive Strength, ASTM D695, Axial: 40000 psi Compressive Strength, ASTM D695, Transverse: 14000 psi

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