Glasrod HIR

Thermoset Polyester

Glastic Corporation

Message:

Glasrod HIR is a solid rod and bar fiberglass-reinforced thermoset polyester shape that exhibits properties desirable for a wide range of structural and electrical applications. Highest physical properties. Electrical properties and high temperature capabilities Class H (200°C). Dimensional stability and 100,000 psi flexural strength. Resistant to fluids commonly used around electrical equipment. Greater cost efficiency than epoxy, phenolic, nylon or brass rod. Available in Round Rod.

General Information			
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	Light green		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.90	g/cm³	ASTM D792
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2.07E+6	MPa	ASTM D638
Tensile Strength (Yield)	621	MPa	ASTM D638
Flexural Modulus	27600	MPa	ASTM D790
Flexural Strength (Yield)	689	MPa	ASTM D790
Shear Strength	24.1	MPa	ASTM D732
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	3200	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
CLTE - Flow	6.0E-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)	3.1	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	5.00		ASTM D150
Arc Resistance	150	sec	ASTM D495

Additional Information

The value listed as Shear Strength ASTM D732 was tested in acordance with ASTM D3914.Insulation Resistance, ASTM D257: 1e10 ohmsCompressive Strength, ASTM D695, Axial: 60000 psiCompressive Strength, ASTM D695, Transverse: 16000 psi

Recommended distributors for this material

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