

### Technical Data Sheet

# Glastic® Glasrod HIR

GFK-UP



#### Typical characteristics

- Strong, excellent retention of properties at elevated temperature, easily fabricated
- Good dimensional stability

#### Typical industries

- Generator and Motor
- Dry transformers
- Electrical Industry
- Electrical Insulating Components
- Switchgear
- Transformer

	Test method	Unit	Guideline value
<b>General properties</b>			
Standard Color			Light Green
<b>Mechanical properties</b>			
Flexural Strength	ASTM D 790	psi	100,000
Tensile Strength	ASTM D 638	psi	90,000
Tensile Modulus	ASTM D 638	psi X 10 <sup>6</sup>	3
IZOD Impact Strength (notched)	ASTM D 256	ft. lb./in.	60
In-Plane Shear Strength	ASTM D 3914	psi	3,500
Compressive Strength - Axial	ASTM D 695	psi	60,000
Compressive Strength - Transverse	ASTM D 695	psi	16,000
<b>Thermal properties</b>			
Coefficient of Thermal Expansion	ASTM D 696	(in./in.°C) x 10 <sup>-5</sup>	0.6
Thermal Conductivity	ASTM C 177		2
<b>Physical properties</b>			
Specific Gravity	ASTM D 792		1.9
Water Absorption	ASTM D 570	%	0.1
<b>Dielectrical properties</b>			
Arc Resistance	ASTM D 495	sec.	150
Permittivity, 60 Hz	ASTM D 150		5
Insulation Resistance	ASTM D 257	Ω x 10 <sup>12</sup>	100

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	Test method	Unit	Guideline value
Electrical Strength - Axial in Oil		kV	80

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