

## Technical Data Sheet

# Glastic® Glasrod SG-200

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			Tan
UL Temperature Index - Electrical	UL 746B	°C	210
UL Temperature Index - Mechanical	UL 746B	°C	210
<b>Mechanical properties</b>			
Flexural Strength	ASTM D 790	psi	80,000
Tensile Strength	ASTM D 638	psi	70,000
Tensile Modulus	ASTM D 638	psi X 10 <sup>6</sup>	2
IZOD Impact Strength (notched)	ASTM D 256	ft. lb./in.	40
In-Plane Shear Strength	ASTM D 3914	psi	3,000
Compressive Strength - Axial	ASTM D 695	psi	50,000
Compressive Strength - Transverse	ASTM D 695	psi	14,000
<b>Thermal properties</b>			
Coefficient of Thermal Expansion	ASTM D 696	(in./in.°C) x 10 <sup>-5</sup>	0.7
Thermal Conductivity	ASTM C 177	BTUIn/HrFt <sup>2</sup> °F	2
<b>Flame resistance properties</b>			
UL Subject 94	UL 94		HB
UL High Amp Ignition	UL 746A		200+
Oxygen Index	ASTM D 2863	%O <sub>2</sub>	21.8
<b>Physical properties</b>			

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	Test method	Unit	Guideline value
Specific Gravity	ASTM D 792		1.85
Water Absorption	ASTM D 570	%	0.15
<b>Dielectrical properties</b>			
Arc Resistance	ASTM D 495	sec.	150
Permittivity, 60 Hz	ASTM D 150		5
Insulation Resistance	ASTM D 257	$\Omega \times 10^{12}$	64
Electrical Strength - Axial in Oil		kV	70

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