

Technical Data Sheet

Glastic® FHT

GFK-UP

Typical characteristics

- High flexibility
- Good dielectric properties
- Heat resistant

Typical industries

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

	Test method	Unit	Guideline value
General properties			
Part Number			1800
Standard Color			Natural/Cream
UL Temperature Index - Electrical	UL 746B	°C	190 (1/32"), 200 (1/16")
UL Temperature Index - Mechanical	UL 746B	°C	190 (1/32"), 200 (1/16")
UL Recognition File Number			E81928
Mechanical properties			
Compressive Strength	ASTM D 695	psi	14,000
Tensile Strength	ASTM D 638	psi	10,500
IZOD Impact Strength (notched)	ASTM D 256	ft. lb./in.	10
Thermal properties			
Coefficient of Thermal Expansion	ASTM D 696	(in./in.°C) x 10-5	2
Thermal Conductivity	ASTM C 177	BTUIn/HrFt ² °F	1.7
Flame resistance properties			
UL Subject 94	UL 94		HB
UL Hot Wire Ignition	UL 746A	sec.	49 (0.028"), 102 (0.058")
UL High Amp Ignition	UL 746A		200+
Oxygen Index	ASTM D 2863	%O ₂	21.8
Physical properties			
Water Absorption	ASTM D 570	% by wt.	1.1

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	Test method	Unit	Guideline value
Specific Gravity	ASTM D 792		1.6
Dielectrical properties			
Electrical Strength - Perpendicular S/T in Air	ASTM D 149	Vpm	450
Electrical Strength - Perpendicular S/T in Oil	ASTM D 149	Vpm	570
Electrical Strength - Parallel S/S in Oil	ASTM D 149	kV	60
Arc Resistance	ASTM D 495	sec.	139
IEC Track Resistance (CTI)	UL 746A	V	500+
Permittivity, 60 Hz	ASTM D 150		6.4
Dissipation Factor, 60 Hz	ASTM D 150		0.07
Dissipation Factor, MHz	ASTM D 150		0.033
Permittivity, MHz	ASTM D 150		4.2

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