

Technical Data Sheet

Glastic® UTS 1478

Typical characteristics

- NEMA GPO-2
- High Strength
- Flame-Resistant Meets UL94 VO

Typical industries

- Switchgear
- Electrical Industry
- Electrical Insulating Components
- Electronics

	Test method	Unit	Guideline value
General properties			
Part Number			1478
NEMA Grade LI 1-1989	NEMA LI-1		GPO-2/GPO-2P
Standard Color			Red
UL Temperature Index - Electrical	UL 746B	°C	130
UL Temperature Index - Mechanical	UL 746B	°C	160
UL Recognition File Number			E81928
Mechanical properties			
Flexural Strength	ASTM D 790	psi	24,600
Flexural Strength @130°C	ASTM D 790	psi	14,900
Compressive Strength	ASTM D 695	psi	39,000
Tensile Strength	ASTM D 638	psi	8,900
IZOD Impact Strength (notched)	ASTM D 256	ft. lb./in.	10.7
Shear Strength	ASTM D 732	psi	13,400
Thermal properties			
Coefficient of Thermal Expansion	ASTM D 696	(in./in.°C) x 10-5	2
Thermal Conductivity	ASTM C 177		1.8
Flame resistance properties			
UL Subject 94	UL 94		VO
UL Hot Wire Ignition	UL 746A	sec.	300+
UL High Amp Ignition	UL 746A		200+



	Test method	Unit	Guideline value
Ignition Time		sec.	81
Burn Time		sec.	48
Oxygen Index	ASTM D 2863	%O ₂	36
Physical properties			
Water Absorption	ASTM D 570	% by wt.	0.6
Specific Gravity	ASTM D 792		1.8
Dielectrical properties			
Electrical Strength - Perpendicular S/T in Air	ASTM D 149	Vpm	433
Electrical Strength - Perpendicular S/T in Oil	ASTM D 149	Vpm	567
Electrical Strength - Parallel S/S in Oil	ASTM D 149	kV	51
Arc Resistance	ASTM D 495	sec.	130
IEC Track Resistance (CTI)	UL 746A	V	600+
Permittivity, 60 Hz	ASTM D 150		4.1
Dissipation Factor, 60 Hz	ASTM D 150		0.011
Dissipation Factor, MHz	ASTM D 150		0.10
Permittivity, MHz	ASTM D 150		3.9
Insulation Resistance	ASTM D 257	Ω x 10 ¹²	270

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