

Glastic® UTS 1478

Thermoset Polyester

Glastic Corporation

Message:

Glastic UTS 1478 is a fiberglass-reinforced laminate. This resin is ideal for applications requiring flame and heat resistance, as well as applications requiring higher retention of properties after heat aging.

Glastic UTS 1478 is ideal for a wide variety of applications, including intricate punchings for switches, switch plates, controls, control panels, and terminal boards.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	High strength		
	Heat resistance, high		
	Flame retardancy		
Uses	Laminate		
	Electronic insulation		
	Industrial application		
UL File Number	E81928		
Appearance	Red		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.60	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (yield, 1.60mm)	61.4	MPa	ASTM D638
Flexural Strength (yield, 1.60mm)	170	MPa	ASTM D790
Compressive Strength (1.60 mm)	269	MPa	ASTM D695
Shear Strength	92.4	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (1.60 mm)	570	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (1.60 mm)	2.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.26	W/m/K	ASTM C177
RTI Elec (1.60 mm)	130	°C	UL 746
RTI (1.60 mm)	160	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹			ASTM D149
1.60 mm, in Air	17	kV/mm	ASTM D149
1.60 mm, in Oil	22	kV/mm	ASTM D149

Dissipation Factor			ASTM D150
1.60 mm, 60 Hz	0.011		ASTM D150
1.60 mm, 1 MHz	0.010		ASTM D150
Arc Resistance (1.60 mm)	130	sec	ASTM D495
Comparative Tracking Index (CTI) (1.60 mm)	500	V	UL 746
High Amp Arc Ignition (HAI) (1.60 mm)	200		UL 746
Hot-wire Ignition (HWI) (1.60 mm)	300	sec	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Oxygen Index (1.60 mm)	36	%	ASTM D2863
Additional Information			
NEMA Grade: GPO-2/GPO-2PMilitary Specification: L-P 509/GPO-2Insulation Resistance, ASTM D257: 2.7e10 ohmsIgnition Time: 81 minBurn Time: 48 min			
NOTE			
1. Method A (short time)			

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