

Glastic® UTR

Thermoset Polyester

Glastic Corporation

Message:

Glastic UTR 1494 is a fiberglass reinforced thermoset polyester material. It is available in sheet form as well as a wide selection of channel, angle, and tube sizes. These materials are the industry standard for flame and arc/track resistant electrical insulation. In addition, the excellent combination of high strength, flame resistance, and low smoke generation has given it application in many other areas such as transit and marine where safe, yet economical materials are required.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Low smoke		
	High strength		
	Anti-arc		
	Track Resistance		
	Flame retardancy		
Uses	Laminate		
	Ship application		
	Electronic insulation		
	Industrial application		
	Sheet		
UL File Number	E81928		
Appearance	Red		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.81	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.40	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (yield, 1.60mm)	53.8	MPa	ASTM D638
Flexural Strength (yield, 1.60mm)	152	MPa	ASTM D790
Compressive Strength (1.60 mm)	228	MPa	ASTM D695
Shear Strength	80.0	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	480	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	0.27	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	18	kV/mm	ASTM D149
1.60 mm, in Oil	23	kV/mm	ASTM D149
Dissipation Factor			ASTM D150
1.60 mm, 60 Hz	0.013		ASTM D150
1.60 mm, 1 MHz	0.010		ASTM D150
Arc Resistance (1.60 mm)	180	sec	ASTM D495
Comparative Tracking Index (CTI) (1.60 mm)	500	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Oxygen Index (1.60 mm)	35	%	ASTM D2863
Additional Information			
NEMA Grade: GPO-3/GPO-3PIInsulation Resistance, ASTM D257: 3.1e12 ohmsFlame Rating, UL 94, over .063 in: V-0Ignition Time: 85 minBurn Time: 49 min			
NOTE			

1. Method A (short time)

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

