

# Glastic® 1494

Thermoset Polyester

Glastic Corporation

## Message:

Glastic® Grade 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
	Low toxicity
	High strength
	Insulation
	Anti-arc
	Track Resistance
	Flame retardancy
UL File Number	E81928
Appearance	Red
Forms	Customizable form factor
	Sheet

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.81	g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 hr)	0.40	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (1.60 mm)	11700	MPa	ASTM D638
Tensile Strength (1.60 mm)	55.2	MPa	ASTM D638
Flexural Strength			ASTM D790
1.60 mm	152	MPa	ASTM D790
130°C, 1.60 mm	90.3	MPa	ASTM D790
Compressive Strength (1.60 mm)	228	MPa	ASTM D695
Shear Strength (1.60 mm)	80.0	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (1.60 mm)	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
Surface Resistivity	3.1E+12	ohms	ASTM D257
Dielectric Strength			ASTM D149
1.60 mm, Parallel S/S in Oil	4.7	kV/mm	ASTM D149
1.60 mm, Perpendicular S/T in Air	18	kV/mm	ASTM D149
1.60 mm, Perpendicular S/T in Oil	23	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1.60 mm, 1 Hz	4.10		ASTM D150
1.60 mm, 60 Hz	4.10		ASTM D150
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
High Voltage Arc Tracking Rate (HVTR) (1.60 mm)	0.00	mm/min	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
2.36 mm	HB		UL 94
2.39 mm	V-0		UL 94
Oxygen Index (1.60 mm)	35	%	ASTM D2863

#### Additional Information

NEMA Grade, NEMA LI-1: GPO-3Inclined Plane Track Resistance, ASTM D2303, 0.125 in: 1000 minFlammability, UL 94, >0.094: V-0Flammability, UL 94, <0.093: HB

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

