

Grade 1580

Flame-Resistant Laminate

- NEMA GPO-3
- Highly Flame-Resistant
- UL94 V0 Flame Rating
- Combines High Arc and Track Resistance
- UL Recognized
- Outstanding Punchability
- Asbestos-Free

Glastic® Grade 1580 is an easily fabricated laminate that exhibits excellent flame resistance.

Grade 1580 Flame-Resistant Laminate meets the UL94 V0 specification of Underwriters Laboratories. This material was originally designed to meet the television industry's safety assurance requirements.

Glastic Grade 1580 Laminate is a Class F material with a UL temperature index of 120° C Electrical and 140° C Mechanical.

Glastic Grade 1580 is available in thicknesses of 1/32 through 3/32 inches; and the standard color is white.

Arc Stack Assembly And Flyback Transformer

Grade 1580 has exceptional flame resistance, arc resistance and a high temperature capability for applications such as flyback transformers and arc stack assemblies.



Grade 1580

Flame-Resistant Laminate

GLASTIC LAMINATES PROPERTY TABLE

TYPICAL AVERAGE VALUES¹

GENERAL INFORMATION	UNIT	ASTM/UL NUMBER	Glastic® Grade 1580
Part Number			1580
Color, Standard			White
MECHANICAL PROPERTIES			
NEMA Grade	—	—	GPO-3
Tensile Strength	Psi	D638	8,400
Tensile Modulus	Psi x 10 ⁶	D638	1.8
Flexural Strength	Psi	D790	24,600
Flexural Strength - 130° C	Psi	D790	8,470
Compressive Strength	Psi	D695	31,200
Shear Strength	Psi	D732	12,000
IZOD Impact Strength (notched)	ft.lb./in.	D256	8.9
Water Absorption	% by wt.	D570	0.2
Specific Gravity	—	D792	1.83
ELECTRICAL PROPERTIES			
Electrical Strength - Perpendicular S/T in air	Vpm	D149	425
Strength - Perpendicular S/T in oil	Vpm	D149	577
Electrical Strength - Parallel S/S in oil	kV	D149	47
Arc Resistance	Sec.	D495	181
IEC Track Resistance (CTI)	V.	UL746A	500+
UL High Voltage Track Rate	In./Min.	UL746A	0
Permittivity, 60 Hz	—	D150	4.2
Dissipation Factor, 60 Hz	—	D150	0.011
Permittivity, MHz	—	D150	4.0
Dissipation Factor, MHz	—	D150	0.010
Insulation Resistance	Ohm x 10 ¹²	D257	823.0
FLAME-RESISTANCE PROPERTIES			
UL Subject 94	—	UL94	V0
UL Hot Wire Ignition	Sec.	UL746A	300+
UL High Amp Ignition	#Exposure	UL746A	200+
Oxygen Index	%O ₂	D2863	39.0
Ignition Time	Sec.	—	84
Burn Time	Sec.	—	23
THERMAL PROPERTIES			
Coefficient of Thermal Expansion	In/In/°C x 10 ⁻⁵	D696	2.0
Thermal Conductivity	BTU/Hr/Ft ² /In/°F	C177	1.9
UL Temperature Index - Electrical	°C	UL 746B	120
- Mechanical	°C	UL 746B	140
UL Recognition File Number	—	—	E81928

¹Typical average values for testing 0.063 inch thick material. Values will vary somewhat from thickness to thickness within a material grade.

Jaco Products : Laminate Die Cutting, Stamping & Machining

15060 Madison Road | Middlefield, OH 44062 | phone 440-632-5800 | fax 440-632-0012 | sales@jacoproducts.com

All of the information, suggestions, and recommendations pertaining to the properties and uses of the Glastic products described herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the use contemplated, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. **THERE IS NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** Under no circumstances shall we be liable for incidental or consequential loss or damage.

Glastic® is a registered trademark of Glastic Corporation. UL® is a registered trademark of Underwriters Laboratories, Inc. ©2002 Glastic Corporation. All Rights Reserved. Printed in USA GL-1070A 0602