



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

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.

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

Grade 1580 is available in thicknesses of $\frac{1}{32}$ through $\frac{3}{32}$ 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

	UNIT	ASTM/UL Number	Grade 1580
General Information			
Part Number			1580
Standard Color			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
Electrical 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	.011
Permittivity, MHz	–	D150	4
Dissipation Factor, MHz	–	D150	0.01
Insulation Resistance	Ohm x 10 ¹²	D257	823
Flame Resistance Properties			
UL Subject 94	–	UL94	VO
UL Hot Wire Ignition	Sec.	UL746A	300+
UL High Amp Ignition	# Exposure	UL746A	200+
Oxygen Index	%O ₂	D2863	39
Ignition Time	Min.	–	84
Burn Time	Min	–	23
Thermal Properties			
Coefficient of Thermal Expansion	In/In/°C x 10 ⁻⁵	D696	2
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

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



Röchling Glastic Composites
4321 Glenridge Road
Cleveland, OH 44121 USA
Tel: 216-486-0100
Fax: 216-486-1091
www.glastic.com

All of the information, suggestions, and recommendations pertaining to the properties and uses of the Röchling Glastic Composites 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 Röchling Glastic Composites. UL® is a registered trademark of Underwriters Laboratories, Inc.

©2007 Röchling Glastic Composites. All Rights Reserved. Printed in USA.