

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.



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