

# Grade T-160

## High-Strength GPO-1

- 160° C Mechanical Thermal Endurance
- 20,000 Psi Flexural Strength at 160° C
- NEMA Grade GPO-1

Grade T-160 is a new, high-strength, heat-resistant laminate. This highly creep-resistant material is excellent for applications where electrically insulating materials are subject to physical loading and moderately high temperature.

	UNIT	ASTM/UL Number	Typical Values	Metric Units	Typical Values
<b>General Information</b>					
Part Number			1360		1360
Standard Color			Natural		Natural
NEMA Grade Li 1-1989			GPO-1		GPO-1
<b>Mechanical Properties</b>					
Tensile Strength	Psi	D638	14,000	Mpa	96.5
Flexural Strength	Psi	D790	29,000	Mpa	200
Flexural Strength – 130°C	Psi x 10 <sup>6</sup>	D790	25,000	Mpa	165.5
Compressive Strength	Psi	D695	56,000	Mpa	386.1
Bond Strength	Psi	D229	1,790	Mpa	12.3
IZOD Impact Strength	ft.lb./in.	D256	12	J/cm	6.4
<b>Electrical Properties</b>					
Electrical Strength – Perpendicular in Air	Vpm	D149	270	kV/mm	10.6
Electrical Strength – Perpendicular in Oil	Vpm	D149	412	kV/mm	16.2
Electrical Strength – Parallel as Required	kV	D149	40	kV	40
Electrical Strength – Parallel 48/50			15	kV	15
Arc Resistance	Sec.	D495	140	Sec.	140
<b>Physical Properties</b>					
Water Absorption	% by wt.	D570	0.3	% by wt.	0.3
Specific Gravity		D792	1.9		1.9
Flame Resistance		UL 94	HB		HB

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