

PHYSICAL DATA

	IMPERIAL	METRIC
Specific Gravity	1.81	—
Tensile Strength	8,000 psi	55 MPa
Compressive Strength	33,100 psi	228 MPa
Flexural Strength	28,800 psi	199 MPa
Hardness - M Scale	62	—
Bond Strength	1,400 psi	9.65 MPa
Shear Strength	11,600 psi	80 MPa
Flammability Rating	UL 94 V-0	—
Maximum Operating Temperature	311F	155°C
Coefficient of Thermal Expansion °C (x 10-5)	1.1	—
Water Absorption - 24 hours	0.4	—
Izod Impact Strength @ 49°C -LW	8.9	—

ELECTRICAL DATA

	IMPERIAL	METRIC
Dissipation Factor (106 cycles Condition A)	0.013	—
Dielectric Constant (106 cycles Condition A)	4.75	—
Dielectric Strength (Perpendicular to Laminations)	—	—
Breakdown Voltage (Parallel to Laminations)	450 VPM	—
Permittivity -A	4.1	—
Tracking Index Resistance	600V	—
Water Saturated Insulation Resistance (D-24/23)	.5 x 10 ¹¹ Ohms	—

Atlas Fibre LLC provides this data as information only and does not imply any warranty for its use or application.

Test data for an individual batch or product must be requested specifically and agreed to in writing and is available for a fee.

PRODUCT DESCRIPTION

A laminate sheet made from flame-retardant polyester resin and fiberglass reinforcement, meeting NEMA GPO-3 and MIL-I-24768/6 specifications.

With high mechanical strength and superior electrical insulating properties, especially in humid environments, this material is ideal for diverse electrical and mechanical applications, offering excellent machinability.

AVAILABLE FORMS & STOCK SIZES

GPO-3 is stocked in sheet from 0.010" to 4.000" thick in sizes up to 48" x 96", and supplied as precision blanks cut to size and sanded to thickness, or as CNC routed and Swiss-turned machined components.

CERTIFIED & TRACEABLE

Conforms to NEMA GPO-3 specifications. Batch test data ships with every order, verified annually by independent third-party lab assessment. No cut-to-size or sanding minimums.



TYPICAL APPLICATIONS

- › Switchgear and arc-resistant barriers
- › Bus bar supports and insulators
- › Motor control center components
- › Transformer insulation panels
- › Machined electrical enclosures

