



Glass Polyester GPO-3

MIL-I-24768/6
Type GPO-3

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 (Paralell to Laminations)	450 VPM	-
Permittivity -A	4.1	-
Tracking Index Resistance	600V	-
Water Saturated Insulation Resistance (D-24/23)	.5 x 10^11 Ohms	

PRODUCT DESCRIPTION

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

TYPICAL APPLICATIONS

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.

Need Additional Information?

Contact Atlas Fibre
Support for support for services and materials.



CONTACT US



847-674-1234



AtlasFibre.com

North America's Leading Thermoset Composite Supplier & Fabricator

Atlas Fibre is the leading supplier of thermoset composite laminate in North America. We produce and supply over 4,000,000 pounds of thermoset composites per year and stock over \$12,000,000 of composite material.

Why Choose Atlas Fibre?



Large Inventory Available

An abundant inventory means material is available when you need it, helping you meet customer demand promptly, minimizing delays and enhancing customer satisfaction.



Fully Traced & Tested Material

Atlas Fibre enhances reliability by supplying test data for every batch of material we ship, and confirm our test lab process through independent third-party assessments on an annual basis.



No Cut-to-Size or Sanding Minimums

Atlas Fibre can cut and sand any thermoset composite or thermoplastic product to size, ensuring ensures each item is tailored to the exact specifications required by customers.



Automated Precision Fabrication

Specializing in High-Mix and High-Volume manufacturing for demanding production requirements, Atlas Fibre excels at delivering versatile and scalable fabrication solutions.

MATERIALS

Glass Epoxy
G10, FR4, G11, FR5

Glass Polyester
GPO-1, GPO-3

Glass Silicone
G7

Phenolic
C, CE, L, LE, G3

Engineering Thermoplastics
PEI (Ultem), PPS, PEEK

Uni-directional Composite
Spring Materials
Atlas SpringLam

SERVICES

CNC Routing and Swiss
CNC Machining
Electrical and Thermal Insulation
Fabrication
Sanding
Batch and Sheet Testing
Thermoset Manufacturing

SHAPES

Sheets
Rods
Tubes
Precision Blanks
Prepreg
Composite Springs and Vibratory
Vacuum Pumps and Vanes



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