

TECHNICAL DATA SHEET

GPO-2 (Glass Polymer Laminate)

GPO is constructed with fiberglass-reinforced thermoset polyesters which feature a combination of beneficial electrical and mechanical properties. These attributes include

Dielectric strength, flame resistance, arc and track resistance, high-flex strength and high-impact strength. They maintain stability, will not melt under heat and have excellent overall electrical properties. All grades are UL® recognized.

Characteristics

GPO-2 is the laminate of choice when arc or flame resistance is required. It has good electrical and physical properties and heat resistance.

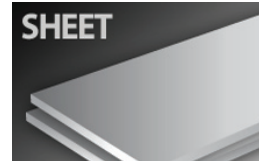
Benefits

- High impact strength
- Good dielectric
- Good integrity at higher temperature
- Ease of fabrication
- Cost effective over high pressure laminates

Applications

- High amperage mounting panels
- Terminal strips
- Switch bases

SHAPE AVAILABLE



TYPICAL PROPERTIES of GPO-2

MECHANICAL PROPERTIES	UNITS	ASTM	RESULTS
Tensile Strength @ yield	psi	D638	10000
Tensile Modulus	MPa	D638	427000
Tensile Elongation @Break	%	D638	4.5
Flexural Strength	MPa		16000
Flexural Modulus	psi		450000
Compressive Strength	psi	D695	17900
IZOD Impact Strength Notched	kJ.m ²	D256	0.375
THERMAL PROPERTIES	UNITS	ASTM	RESULTS
Coefficient of Linear Thermal Expansion	x10 ⁻⁵ /K	C177	0.000042
Heat Deflection Temp at 264 psi	°F		200
ELECTRICAL PROPERTIES	UNITS	ASTM	RESULTS
Surface Resistivity @60 Hz	ohms/sq	D257	
Volume Resistivity, 50% RH	ohm-cm	D250	
OPTICAL PROPERTIES	UNITS	ASTM	RESULTS
3mm Transparent Clear Transmittance. Total (%)	%	D1003	
	%	D542	1.43

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets. All values at 73°F (23°C) unless otherwise noted.