

# Politen® G1GP10

Polyester Alloy

ITEN INDUSTRIES

Message:

POLITEN® Glass Polyester Sheets are formulated for superior electrical, thermal and mechanical properties.

POLITEN® sheets are used in many applications including the electrical/electronic, marine, automotive and appliance markets. With over 30 years experience in the formulating and the manufacturing of POLITEN® sheets, Iten Industries can offer a high degree of quality, cost effectiveness and engineering services for material and part design.

POLITEN® sheets are formulated and manufactured from fiberglass reinforced thermoset polyester resins. Many grades are recognized by Underwriters Laboratories Inc.® and are formulated to meet NEMA, GPO1, GPO2 and GPO3 specifications. Testing to ASTM, ANSI, Military, NEMA and customer specifications are performed in Iten's laboratories.

POLITEN® sheets are manufactured in many colors and are available in up to 6" thick. Standard sizes are 3' x 6', 4' x 6' and 4' x 8'. Custom sheet sizes, strips and blocks are also available upon request.

General Information		
UL YellowCard	E89720-252463	
Filler / Reinforcement	Glass Fiber	
Features	Good Electrical Properties	
	Good Thermal Stability	
Uses	Appliances	
	Automotive Applications	
	Electrical/Electronic Applications	
	Marine Applications	
	Sheet	
Agency Ratings	ANSI Unspecified Rating	
	EC 1907/2006 (REACH)	
	NEMA GPO-1	
	NEMA GPO-2	
	NEMA GPO-3	
RoHS Compliance	RoHS Compliant	
Appearance	Colors Available	
Forms	Sheet	
Mechanical	Nominal Value	Unit
Tensile Strength <sup>1</sup>		
Across Flow : Yield	66.2	MPa
Flow : Yield	82.7	MPa
Flexural Strength		
-- <sup>2</sup>	139	MPa
-- <sup>3</sup>	170	MPa

Compressive Strength <sup>4</sup>	187	MPa	
Impact	Nominal Value	Unit	
Notched Izod Impact <sup>5</sup>			
Across Flow	430	J/m	
Flow	430	J/m	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (In Oil)	11	kV/mm	ASTM D149
Relative Permittivity			
1 MHz <sup>6</sup>	4.45		IEC 60250
1 MHz <sup>7</sup>	4.41		ASTM D150
Dissipation Factor			ASTM D150
1 MHz <sup>8</sup>	0.018		
1 MHz <sup>9</sup>	0.015		
Arc Resistance			ASTM D495
-- <sup>10</sup>	98.0	sec	
-- <sup>11</sup>	125	sec	
Dielectric Breakdown			ASTM D149
-- <sup>12</sup>	36600	V	
-- <sup>13</sup>	65300	V	

#### NOTE

1. Condition A
2. Across Flow, Condition A
3. Flow, Condition A
4. Across Flow, Condition A
5. E48/50
6. D24/23
7. Condition A
8. D24/23
9. Condition A
10. D48/50
11. Condition A
12. D48/50
13. Condition A

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

