

# Iten Industries

## Politen® G1GP10 Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>
Thickness			.125 inches
Tensile Strength:	Lengthwise	D638	12,000 psi
	Crosswise		9,600 psi
Flexural Strength:	Condition A Lengthwise	D790	24,600 psi
	Condition A Crosswise		20,100 psi
	D48/50 Lengthwise		24,900 psi
	D48/50 Crosswise		20,100 psi
Compressive Strength:	Lengthwise	D695	27,100 psi
	Crosswise		27,100 psi
Izod Impact (notched):	Condition A Lengthwise	D256	8.10 ft.lb./in.
	Condition A Crosswise		8.10 ft.lb./in.
	D48/50 Lengthwise		8.20 ft.lb./in.
	D48/50 Crosswise		7.80 ft.lb./in.
	E48/50 Lengthwise		8.00 ft.lb./in.
	E48/50 Crosswise		8.00 ft.lb./in.
Water Absorption		D570	.27% of weight
Specific Gravity		D792	1.77
U.L. Subject 94		UL94	94HB
Dielectric Strength		D149	276+ Vpm
Dielectric Breakdown:	Condition A	D149	65.3 kV
	D48/50		36.6 kV
Arc Resistance:	Condition A	D495	125 seconds
	D48/50		98 seconds
Comparative Track Index (CTI)		U.L. 746A	500+ Volts
U.L HV Track Rate		U.L. 746A	5.6 mm/Min.
Permittivity, 1MHz:	Condition A	D150	4.41
	D24/23		4.45
Dissipation Factor, 1MHz:	Condition A	D150	0.0150
	D24/23		0.0184
Permittivity, 1KHz:	Condition A	D150	4.57
	D24/23		4.91
Dissipation Factor, 1KHz:	Condition A	D150	0.0075
	D24/23		0.0795
U.L. Hot Wire Ignition		U.L. 746A	11 seconds
U.L. High Amp Ignition		U.L. 746A	79 Exposure
U.L. temperature Index:	Electrical		105° C
	Mechanical		160° C
Halogen Content			0%

G1GP10 was formerly G1

Politen® G1GP10 meets NEMA specifications for GPO 1

Standard Sheet sizes are 36" x 72", 48" x 72", & 49" x 97"

Ashtabula, Ohio 44004 440-997-6134 Fax 440-992-3614  
and

Addison, Illinois 60101 630-543-2820 Fax 630-543-1463

All values are average test results from typical production material. No warranty is implied or guaranteed and testing is recommended for each application.

[www.itenindustries.com](http://www.itenindustries.com)

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