

# Iten Industries

## Politen® G3LS10 Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>	<u>Values</u>
Thickness:			.125 inches	.250 inches
Tensile Strength:	Condition A Lengthwise	D790	11,600 psi	NA
	Condition A Crosswise		7,800 psi	NA
Flexural Strength:	Condition A Lengthwise	D790	26,500 psi	35,100 psi
	Condition A Crosswise		18,000 psi	30,600 psi
	D48/50 Lengthwise		22,500 psi	28,800 psi
	D48/50 Crosswise		17,600 psi	25,200 psi
Compressive Strength:	Lengthwise	D695	30,000 psi	33,400 psi
	Crosswise		25,300 psi	32,500 psi
	Flatwise			45,000 + psi
Izod Impact (notched):	Condition A Lengthwise	D256	8.20 ft.lb./in.	11.20 ft.lb./in.
	Condition A Crosswise		6.20 ft.lb./in.	11.20 ft.lb./in.
	Condition A Lengthwise		7.30 ft.lb./in.	9.40 ft.lb./in.
	D48/50 Crosswise	D256	5.00 ft.lb./in.	9.10 ft.lb./in.
	D48/50 Lengthwise		8.10 ft.lb./in.	10.80 ft.lb./in.
	E48/50 Crosswise		5.80 ft.lb./in.	10.40 ft.lb./in.
Water Absorption		D570	.54% of weight	.28% of weight
Specific Gravity		D792	1.84	1.84
U.L. Subject 94		UL94	V-0	V-0
Dielectric Strength		D149	253 Vpm	360+ Vpm
Dielectric Breakdown:	Condition A	D149	78 kV	87 Kv
	D48/50		31 kV	25 Kv
Arc Resistance:	Condition A	D495	184 seconds	189 seconds
	D48/50		182 seconds	186 seconds
Permittivity, 1MHz	Condition A	D150	4.37	
	D48/50		4.54	
Dissipation Factor, 1 MHz	Condition A	D150	0.016	
	D48/50		0.027	
Permittivity, 1KHz	Condition A	D150	4.70	
	D48/50		5.40	
Dissipation Factor, 1 KHz	Condition A	D150	0.020	
	D48/50		0.086	
Permittivity, 60 KHz	Condition A	D150	NR	
	D48/50		NR	
Dissipation Factor, 60 KHz	Condition A	D150	NR	
	D48/50		NR	
Heat Source		E662	Flaming	
Smoke @ 90 seconds			1	
Smoke @ 240 seconds			4	
Maximum Smoke			191	
Time to Maximum Smoke			20 minutes	
Heat Source			Non-Flaming	
Smoke @ 90 seconds			1	
Smoke @ 240 seconds			4	
Maximum Smoke			204	
Time to Maximum Smoke			20 minutes	
Halogen Content			0%	

G3LS10 was formerly G1LS

Standard Sheet sizes are 36" x72", 48" x 72", & 49" x 97"  
 Ashtabula, Ohio 44004 440-997-6134 Fax 440-992-3614

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)

*Imagineering With Plastics*