

# Iten Industries

## Politen® G3LS20 Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>	
Thickness:			.125 inches	
Tensile Strength:	Condition A	Lengthwise	D790	11,500 psi
	Condition A	Crosswise		9,900 psi
Flexural Strength:	Condition A	Lengthwise	D790	26,500 psi
	Condition A	Crosswise		22,000 psi
	D48/50	Lengthwise		24,300 psi
	D48/50	Crosswise		18,300 psi
Compressive Strength:		Lengthwise	D695	21,400 psi
		Crosswise		20,300 psi
		Flatwise		
Izod Impact (notched):	Condition A	Lengthwise	D256	7.80 ft.lb./in.
	Condition A	Crosswise		7.00 ft.lb./in.
	Condition A	Lengthwise		6.60 ft.lb./in.
	D48/50	Crosswise	D256	6.30 ft.lb./in.
	D48/50	Lengthwise		8.20 ft.lb./in.
	E48/50	Crosswise		7.40 ft.lb./in.
Water Absorption			D570	.27% of weight
Specific Gravity			D792	1.81
U.L. Subject 94			UL94	V-0
Dielectric Strength			D149	413+ Vpm
Dielectric Breakdown:	Condition A		D149	85 kV
	D48/50			40 kV
	D336/50			30 kV
Arc Resistance:	Condition A		D495	170 seconds
	D48/50			154 seconds
Permittivity, 1MHz	Condition A		D150	4.01
	D48/50			4.08
Dissipation Factor, 1 MHz	Condition A		D150	0.015
	D48/50			0.017
Permittivity, 1KHz	Condition A		D150	4.24
	D48/50			4.41
Dissipation Factor, 1 KHz	Condition A		D150	0.015
	D48/50			0.024
Permittivity, 60 KHz	Condition A		D150	4.38
	D48/50			4.85
Dissipation Factor, 60 KHz	Condition A		D150	0.005
	D48/50			0.021
Optical Smoke Density @ 4 minutes				4.6
Flame Spread Index				4.4
<b>Toxicity (max PPM)</b>				
Hydrogen Chloride				10
Hydrogen Bromide				10
Hydrogen Cyanide				10
Hydrogen Sulfide				10
Vinyl Chloride				10
Ammonia				500
Aldehydes				30
Oxides of Nitrogen				1
Carbon Dioxide				15,000
Carbon Monoxide				1,000

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