

# 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

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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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