

# Iten Industries

## Resiten® G3 Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>	<u>Values</u>	<u>Values</u>
Thickness			.062 inches	.125 inches	.500 inches
Tensile Strength:	Lengthwise	D638	30,100 psi		
	Crosswise		22,700 psi		
Flexural Strength:	Condition A Lengthwise	D790	48,700 psi	39,900 psi	33,500 psi
	Condition A Crosswise		46,000 psi	39,000 psi	31,000 psi
	D48/50 Lengthwise		51,000 psi	38,000 psi	
	D48/50 Crosswise		44,800 psi	38,000 psi	
Compressive Strength:	Lengthwise	D695	23,300 psi	19,200 psi	
	Crosswise		15,200 psi	13,400 psi	
	Flatwise		50,500 psi	50,500 psi	
Izod Impact (notched):	Condition A Lengthwise	D256	9.4 ft.lb./in.	11.4 ft.lb./in.	
	Condition A Crosswise		7.1 ft.lb./in.	9.8 ft.lb./in.	
	D48/50 Lengthwise		8.6 ft.lb./in.	11.1 ft.lb./in.	
	D48/50 Crosswise	D256	7.3 ft.lb./in.	8.9 ft.lb./in.	
	E48/50 Lengthwise		8.8 ft.lb./in.	12.2 ft.lb./in.	12.5 ft.lb./in.
	E48/50 Crosswise		7.6 ft.lb./in.	10.2 ft.lb./in.	9.5 ft.lb./in.
Bond Strength		D229			1,304 lbs.
Water Absorption		D570	.83% of weight	.82% of weight	.65% of weight
Specific Gravity		D792	1.75	1.77	1.96
U.L. Subject 94		UL94	94HB	94V-O	94VO
Dielectric Strength		D149	383 Vpm	283 Vpm	
Dielectric Breakdown:	Condition A	D149	80 kV	32 kV	17 kV
	D48/50		60 kV	28 kV	21 kV
Arc Resistance:	Condition A	D495	185 seconds	184 seconds	
	D48/50		185 seconds	186 seconds	
Permittivity, 1MHz:	Condition A	D150	5.04	6.14	
	D24/23		5.16	6.27	
Dissipation Factor, 1MHz:	Condition A	D150	0.017	0.046	
	D24/23		0.018	0.047	
Permittivity, 1KHz:	Condition A	D150	5.35	8.02	
	D24/23		5.50	8.42	
Dissipation Factor, 1KHz:	Condition A	D150	0.005	0.079	
	D24/23		0.013	0.091	
Permittivity, 60Hz:	Condition A	D150	5.43	9.33	
	D24/23		5.66	10.32	
Dissipation Factor, 60 Hz:	Condition A	D150	0.004	0.138	
	D24/23		0.021	0.158	

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

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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.

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