

Iten Industries

Resiten® G9 Performance Values

VALUES AND STANDARDS BASED ON .125" LAMINATE

<u>PROPERTIES</u>	<u>ASTM</u>	<u>COND.</u>	<u>TYPICAL VALUES</u>	<u>NEMA G9 STANDARD</u>	<u>MIL-I-24768/1 STANDARD</u>
Flexural Strength (psi)	D790				
Lengthwise		A	60400	55000	55000
Crosswise		A	50200	35000	35000
Compressive Strength (psi)	D695				
Flatwise		A	45000	N/A	N/A
Edge Lengthwise		A	25900	N/A	N/A
Edge Crosswise		A	23900	N/A	N/A
Izod Impact (notched) (ftlb/in)	D256				
Lengthwise		E48/50	22.7	7	7
Crosswise		E48/50	17.9	5.5	5.5
Bond Strength (lbs)	D229				
(0.500" Thick)		A	1980	1700	1700
(0.500" Thick)		D48/50	1590	1500	1500
Water Absorption (%)	D570	D,24/23	0.50	0.70	0.70
Specific Gravity (gm/cc)	D792	A	2.050	N/A	N/A
Rockwell hardness (M)	D785	A	90	N/A	N/A
Flammability	UL94	A	94 V-0	94 V-0	94 V-0
Dielectric Strength (Vpm)	D149	A	370	N/A	N/A
Dielectric Breakdown (kV)	D149	A	67.3	60.0	60.0
		D48/50	58.6	55.0	55.0
		D336/50	55.8	N/A	50.0
Permittivity (1MHz)	D150	A	6.53	7.20	7.20
		D24/23	6.36	7.40	7.40
		D48/50	5.71	7.50	N/A
Dissipation Factor (1MHz)	D150	A	0.006	0.017	0.017
		D24/23	0.008	0.018	0.018
		D48/50	0.007	0.020	N/A
Arc Resistance (sec)	D495	A	195	180	N/A
		D48/50	189	180	180

Resiten® G9 meets NEMA G9 and MIL-I-24768 GME material specifications

Resiten® G9 is a glass based melamine laminate with excellent arc resistance, mechanical strengths, permittivity and dissipation factor.

Sheet sizes include: (in) 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.