

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