

# Iten Industries

## Resiten® G7 Performance Values

VALUES AND STANDARDS BASED ON .125" LAMINATE

<b>PROPERTIES</b>	<b>ASTM</b>	<b>COND.</b>	<b>TYPICAL VALUES</b>	<b>NEMA G7 STANDARD</b>	<b>MIL-I-24768/17 STANDARD</b>
<b>Tensile Strength (psi)</b>	D638				
Lengthwise		A	<b>27700</b>	N/A	N/A
Crosswise		A	<b>20600</b>	N/A	N/A
<b>Flexural Strength (psi)</b>	D790				
Lengthwise		A	<b>25800</b>	20000	20000
Crosswise		A	<b>20900</b>	18000	18000
<b>Compressive Strength (psi)</b>	D695				
Flatwise		A	<b>44800</b>	N/A	N/A
Edge Lengthwise		A	<b>8625</b>	N/A	N/A
Edge Crosswise		A	<b>7330</b>	N/A	N/A
<b>Izod Impact (notched) (ftlb/in)</b>	D256				
Lengthwise		E48/50	<b>19.1</b>	6.5	6.5
Crosswise		E48/50	<b>14.4</b>	5.5	5.5
<b>Bond Strength (lbs)</b>	D229				
(0.500" Thick)		A	<b>1150</b>	650	650
(0.500" Thick)		D48/50	<b>1200</b>	550	550
<b>Water Absorption (%)</b>	D570	D,24/23	<b>0.12</b>	0.35	0.35
<b>Specific Gravity (gm/cc)</b>	D792	A	<b>1.89</b>	N/A	N/A
<b>Rockwell hardness (M)</b>	D785	A	<b>67</b>	N/A	N/A
<b>Flammability</b>	UL94	A	<b>94 V-0</b>	94 V-0	N/A
<b>Dielectric Strength (Vpm)</b>	D149	A	<b>465</b>	N/A	N/A
<b>Dielectric Breakdown (kV)</b>	D149	A	<b>70.0</b>	32.0	32.0
		D48/50	<b>47.0</b>	15.0	15.0
<b>Permittivity (1MHz)</b>	D150	A	<b>3.90</b>	4.20	4.20
		D24/23	<b>3.95</b>	4.20	4.20
<b>Dissipation Factor (1MHz)</b>	D150	A	<b>0.002</b>	0.003	0.003
		D24/23	<b>0.004</b>	0.022	0.022
<b>Arc Resistance (sec)</b>	D495	A	<b>246</b>	180	
		D48/50	<b>254</b>	180	180

**Resiten® G7 meets NEMA G7 and MIL-I-24768/17 GSG material specifications**

**Resiten® G7** is a high temperature glass based silicone laminate with excellent dielectric strengths, permittivity and dissipation factor. Advantages are reduced effect of properties after long durations of high temperature. material will withstand temperatures in excess of 465 degrees (F).

**Sheet sizes include: (in)**      36 x 48

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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.

