

# Iten Industries

## Resiten® 600 Performance Values

VALUES AND STANDARDS BASED ON .125" LAMINATE

<b>PROPERTIES</b>	<b>ASTM</b>	<b>COND.</b>	<b>TYPICAL VALUES</b>	<b>NEMA X / XP STANDARD</b>	<b>MIL-I-24768/ 12 (PBM) / 19 (PBM-P) STANDARD</b>
<b>Tensile Strength (psi)</b>	D638				
Lengthwise		A	<b>24400</b>	N/A	N/A
Crosswise		A	<b>16500</b>	N/A	N/A
<b>Flexural Strength (psi)</b>	D790				
Lengthwise		A	<b>29400</b>	25000 / 14000	25000 / 14000
Crosswise		A	<b>23900</b>	22000 / 12000	22000 / 12000
<b>Compressive Strength (psi)</b>	D695				
Edge Lengthwise		A	<b>22200</b>	N/A	N/A
Edge Crosswise		A	<b>20200</b>	N/A	N/A
<b>Izod Impact (notched) (ftlb/in)</b>	D256				
Lengthwise		E48/50	<b>1.1</b>	0.55 / NA	0.55 / NA
Crosswise		E48/50	<b>1.0</b>	0.50 / NA	0.50 / NA
<b>Bond Strength (lbs)</b>	D229				
(0.500" Thick)		A	<b>1055</b>	700	700
(0.500" Thick)		D48/50	<b>490</b>	400	400
<b>Water Absorption (%)</b>	D570	D,24/23	<b>1.96</b>	3.30 / 2.20	3.30 / NA
<b>Specific Gravity (gm/cc)</b>	D792	A	<b>1.42</b>	N/A	N/A
<b>Rockwell hardness (M)</b>	D785	A	<b>65</b>	N/A	N/A
<b>Flammability</b>	UL94	A	<b>94HB</b>	94HB / 94HB	N/A
<b>Dielectric Strength (Vpm)</b>	D149	A	<b>340</b>	N/A	N/A
<b>Dielectric Breakdown (kV)</b>	D149	A	<b>43.0</b>	NA / 40.0	NA / 40.0
		D48/50	<b>3.0</b>	N/A	N/A
<b>Permittivity (1MHz)</b>	D150	A	<b>4.96</b>	N/A	N/A
		D24/23	<b>6.36</b>	N/A	N/A
<b>Dissipation Factor (1MHz)</b>	D150	A	<b>0.0510</b>	N/A	N/A
		D24/23	<b>0.0970</b>	N/A	N/A

**Resiten® 600 meets NEMA X, XP and MIL-I-24768 PBM, PBM-P material specifications**

**Resiten® 600** is an economical paper based phenolic mechanical material exhibiting lower electrical requirements than that requiring NEMA XX. Material usage includes drill board, backer board or as an excellent fixturing media. Advantages are reduced cost and weight compared with steel.

**Sheet sizes include: (in)**      36 x 48,    48 x 48,    48 x 72,    48 x 96

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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**  
**Imagineering with Plastics**

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