

# Iten Industries

## Resiten® CE Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>	<u>Values</u>
Thickness			.125 inches	.500 inches
Tensile Strength:				
	Lengthwise	D638	15,100 psi	
	Crosswise		7,900 psi	
Flexural Strength:	Condition A	D790	27,100 psi	24,800 psi
	Condition A		17,000 psi	16,300 psi
	D48/50		25,600 psi	
	D48/50		28,600 psi	
Compressive Strength:				
	Lengthwise	D695	24,800 psi	32,100 psi
	Crosswise		23,400 psi	29,500 psi
	Flatwise		> 45,000 psi	> 45,000 psi
Izod Impact (notched):	Condition A	D256	2.36 ft.lb./in.	2.26 ft.lb./in.
	Condition A		1.55 ft.lb./in.	1.25 ft.lb./in.
	D48/50		3.09 ft.lb./in.	2.36 ft.lb./in.
	D48/50		1.66 ft.lb./in.	1.43 ft.lb./in.
	E48/50		2.58 ft.lb./in.	2.32 ft.lb./in.
	E48/50		1.47 ft.lb./in.	1.30 ft.lb./in.
Bond Strength	Condition A	D229		2,300 pounds
	D48/50			2,300 pounds
Water Absorption		D570	.59% of weight	.35% of weight
Specific Gravity		D792	1.36	1.36
U.L. Subject 94		UL94	HB	HB
Dielectric Strength		D149	293 Vpm	
Dielectric Breakdown:	Condition A	D149	65.9 kV	50.7 kV
	D48/50		5.1 kV	6.0 kV
Arc Resistance:	Condition A	D495	37 seconds	36 seconds
	D48/50		9 seconds	10 seconds
Comparative Track Index (CTI) @ .057"		U.L. 746A	140 Volts	
U.L. HV Track Rate @ .057"		U.L. 746A	4.9 mm/min.	
Permittivity, 1MHz:	Condition A	D150	4.85	
	D24/23		5.00	
Dissipation Factor, 1MHz:	Condition A	D150	.050	
	D24/23		.062	
Permittivity, 1KHz:	Condition A	D150	6.29	
	D24/23		7.50	
Dissipation Factor, 1KHz:	Condition A	D150	.110	
	D24/23		.190	
Permittivity, 60 Hz:	Condition A	D150	8.15	
	D24/23		11.44	
Dissipation Factor, 60 Hz:	D24/23		.248	
U.L. Hot Wire Ignition @ .057"		U.L. 746A	50.2 seconds	
U.L. High Amp Ignition @ .057"		U.L. 746A	200 + Exposure	
U.L. temperature Index @ .057":	Electrical		115° C	
	Mechanical		125° C	

Resiten® CE meets NEMA specifications for CE, Mil type FBG, & GE A19B18A1 & A2  
 Standard Sheet sizes are 36" x 46" , 48" x 48" & 48" x 96"  
 Ashtabula, Ohio 44004 440-997-6134 Fax 440-992-3614

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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