

Iten Industries

Resiten® 100 Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>	<u>Values</u>	<u>Values</u>
Thickness			.062 inches	.125 inches	.500 inches
Tensile Strength:					
	Lengthwise	D638	23,800 psi	25,500 psi	
	Crosswise		17,700 psi	17,600 psi	
Flexural Strength:	Condition A	D790	29,000 psi	26,900 psi	27,000 psi
	Condition A		25,600 psi	24,300 psi	21,200 psi
	D48/50		28,500 psi	27,000 psi	26,400 psi
	D48/50		22,800 psi	23,000 psi	22,100 psi
Compressive Strength:					
	Lengthwise	D695	10,400 psi	19,700 psi	56,600 psi
	Crosswise		8,400 psi	19,700 psi	56,400 psi
Izod Impact (notched):	Condition A	D256	0.66 ft.lb./in.	0.56 ft.lb./in.	0.66 ft.lb./in.
	Condition A		0.54 ft.lb./in.	0.49 ft.lb./in.	0.52 ft.lb./in.
	D48/50		0.65 ft.lb./in.	0.71 ft.lb./in.	0.95ft.lb./in.
	D48/50	D256	0.57 ft.lb./in.	0.58 ft.lb./in.	0.90 ft.lb./in.
	E48/50		0.62 ft.lb./in.	0.54 ft.lb./in.	0.62 ft.lb./in.
	E48/50		0.50 ft.lb./in.	0.47 ft.lb./in.	0.48 ft.lb./in.
Water Absorption		D570	1.76% of weight	1.07% of weight	.54% of weight
Specific Gravity		D792	1.38	1.38	1.38
U.L. Subject 94		UL94	94HB	94HB	94VO
Dielectric Strength		D149	703 Vpm	450 Vpm	
Dielectric Breakdown:	Condition A	D149	78.0 kV	60.0 kV	42.0 kV
	D48/50		6.0 kV	8.0 kV	7.0 kV
Arc Resistance:	Condition A	D495	78 seconds	79 seconds	82 seconds
	D48/50		30 seconds	43 seconds	20 seconds
Comparative Track Index (CTI)		U.L. 746A	210 Volts		
U.L HV Track Rate		U.L. 746A	5.0 mm/min.		
Permittivity, 1MHz:	Condition A	D150	5.00	5.42	
	D24/23		5.40	5.69	
Dissipation Factor, 1MHz:	Condition A	D150	0.0410	0.0470	
	D24/23		0.0570	0.0580	
Permittivity, 1KHz:	Condition A	D150	6.28	7.07	
	D24/23		8.31	8.47	
Dissipation Factor, 1KHz:	Condition A	D150	0.1040	0.1290	
	D24/23		0.2340	0.2520	
Permittivity, 60 KHz:	Condition A	D150	8.01	9.67	
	D24/23		13.52	14.69	
Dissipation Factor, 60 KHz:	Condition A	D150	0.2550	0.3290	
	D24/23		0.5110	0.6390	
U.L. Hot Wire Ignition		U.L. 746A	14.8 seconds		
U.L. High Amp Ignition		U.L. 746A	200 + Exposure		
U.L. temperature Index:	Electrical		130° C		
	Mechanical		130° C		

Resiten® 100 meets NEMA XXP material specifications

Standard Sheet sizes are 36" x 48", 48" x 48", 48" x 72", & 48" x 96"

Ashtabula, Ohio 44004 440-997-6134 Fax 440-992-3614
and

Addison, Illinois 60101 630-543-2880 Fax 630-543-1463

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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