

Iten Industries

Resiten® LB400 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	14,100 psi	10,100 psi	
		Crosswise		10,400 psi	7,500 psi	
Flexural Strength:	Condition A	Lengthwise	D790	23,000 psi	19,000 psi	16,200 psi
	Condition A	Crosswise		17,100 psi	14,400 psi	13,600 psi
	D48/50	Lengthwise		26,500 psi	20,600 psi	
	D48/50	Crosswise		20,400 psi	16,200 psi	
Compressive Strength:		Lengthwise	D695	8,400 psi	25,900 psi	33,000 psi
		Crosswise		7,200 psi	25,800 psi	32,400 psi
		Flatwise			45,000+ psi	45,000+ psi
Izod Impact (notched):	Condition A	Lengthwise	D256	1.3 ft.lb./in.	1.0 ft.lb./in.	1.0 ft.lb./in.
	Condition A	Crosswise		.9 ft.lb./in.	.6 ft.lb./in.	.6 ft.lb./in.
	D48/50	Lengthwise		1.3 ft.lb./in.	1.0 ft.lb./in.	1.4 ft.lb./in.
	D48/50	Crosswise		.7 ft.lb./in.	.6 ft.lb./in.	.8 ft.lb./in.
	E48/50	Lengthwise		1.3 ft.lb./in.	1.0 ft.lb./in.	1.0 ft.lb./in.
	E48/50	Crosswise		.7 ft.lb./in.	.8 ft.lb./in.	.8 ft.lb./in.
Bond Strength	Condition A		D229			1,730 lbs
	D48/50					1,910 lbs
Water Absorption			D570	1.4% of weight	.47% of weight	.31% of weight
Specific Gravity			D792	1.34	1.33	1.32
U.L. Subject 94			UL94	HB	HB	V-O
Dielectric Strength			D149	318 Vpm	277 Vpm	
Dielectric Breakdown:	Condition A		D149	80+ Kv	80+ Kv	75 Kv
	D48/50			39 Kv	68 Kv	66 Kv
Arc Resistance:	Condition A		D495	131 seconds	136 seconds	135 seconds
	D48/50			107 seconds	115 seconds	139 seconds
Permittivity, 1MHz:	Condition A		D150	5.06	4.85	
	D24/23			5.33	4.91	
Dissipation Factor, 1MHz:	Condition A		D150	0.039	0.034	
	D24/23			0.043	0.035	
Permittivity, 1KHz:	Condition A		D150	6.08	5.45	
	D24/23			6.85	5.58	
Dissipation Factor, 1KHz:	Condition A		D150	0.08	0.035	
	D24/23			0.145	0.037	
Permittivity, 60 Hz:	Condition A		D150		5.85	
	D24/23				6.13	
Dissipation Factor, 60 Hz:	Condition A		D150		0.082	

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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