

# Iten Industries

## Resiten® C 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	.50 inches
Tensile Strength:					
	Lengthwise	D638	11,500 psi	12,400 psi	
	Crosswise		6,500 psi	7,600 psi	
Flexural Strength:	Condition A				
	Lengthwise	D790	24,500 psi	21,200 psi	20,000 psi
	Crosswise		16,600 psi	15,200 psi	13,600 psi
	D48/50				
	Lengthwise		21,400 psi	21,400 psi	
	Crosswise		16,300 psi	16,300 psi	
Compressive Strength:					
	Lengthwise	D695	6,730 psi	22,200 psi	30,900 psi
	Crosswise		6,630 psi	20,800 psi	28,100 psi
	Flatwise		> 45,000 psi	> 45,000 psi	> 45,000 psi
Izod Impact (notched):	Condition A				
	Lengthwise	D256	2.75 ft.lb./in.	2.66 ft.lb./in.	2.46 ft.lb./in.
	Crosswise		1.76 ft.lb./in.	1.68 ft.lb./in.	1.30 ft.lb./in.
	D48/50				
	Lengthwise		3.93 ft.lb./in.	3.03 ft.lb./in.	2.62 ft.lb./in.
	Crosswise		2.15 ft.lb./in.	1.84 ft.lb./in.	1.40 ft.lb./in.
	E48/50				
	Lengthwise		2.83 ft.lb./in.	2.36 ft.lb./in.	2.65 ft.lb./in.
	Crosswise		1.53 ft.lb./in.	1.40 ft.lb./in.	1.38 ft.lb./in.
Bond Strength	Condition A	D229			2,280 pounds
Water Absorption		D570	1.40% of weight	.98% of weight	.52% of weight
Specific Gravity		D792	1.36	1.36	1.36
U.L. Subject 94		UL94	HB	HB	HB
Dielectric Strength		D149	383 Vpm	228 Vpm	
Dielectric Breakdown:	Condition A				
	D48/50	D149	50 kV	43 kV	33 kV
			2.6 kV	5.3 kV	5.7 kV
Arc Resistance:	Condition A				
	D48/50	D495	47 seconds	38 seconds	47 seconds
			8 seconds	6 seconds	13 seconds
U.L HV Track Rate @ .057"		U.L. 746A	10.6 mm/min.		
Permittivity, 1MHz:	Condition A				
	D24/23	D150	4.59	5.32	
			5.17	5.46	
Dissipation Factor, 1MHz:	Condition A				
	D24/23	D150	.053	.064	
			.077	.072	
Permittivity, 1KHz:	Condition A				
	D24/23	D150	6.71	8.27	
			9.44	9.26	
Dissipation Factor, 1KHz:	Condition A				
	D24/23	D150	.169	.216	
			.260	.265	
U.L. Hot Wire Ignition @ .057"		U.L. 746A	9.3 seconds		
U.L. High Amp Ignition @ .057"		U.L. 746A	6.7 Exposure		
U.L. temperature Index @ .057":	Electrical		115° C		
	Mechanical		125° C		

Resiten® C meets NEMA specifications for C, Mil type FBM, & GE A19B15A1 & A2

Standard Sheet sizes are 36" x 48" & 48" x 48"

Ashtabula, Ohio 44004 440-997-6134 Fax 440-992-3614  
 Addison, Illinois 60101 630-543-2820 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.

www.itenindustries.com

Imagineering with Plastics

May 14, 2001