

Iten Industries

Resiten® rotor Vane Grade LV355 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	12,900 psi	13,600 psi	
			Crosswise	8,100 psi	10,000 psi
Flexural Strength:	Condition A	Lengthwise D790	21,300 psi	17,700 psi	17,500 psi
	Condition A	Crosswise	15,900 psi	15,200 psi	14,400 psi
	D48/50	Lengthwise	22,400 psi	19,000 psi	20,700 psi
	D48/50	Crosswise	17,300 psi	16,600 psi	16,800 psi
Compressive Strength:	D48/50	Lengthwise D695	9,300 psi	25,100 psi	12,300 psi
		Crosswise	9,200 psi	24,700 psi	12,300 psi
		Flatwise		> 45,000 psi	> 45,000 psi
Izod Impact (notched):	Condition A	Lengthwise D256	1.21 ft.lb./in.	1.14 ft.lb./in.	1.02 ft.lb./in.
	Condition A	Crosswise	0.88 ft.lb./in.	0.87 ft.lb./in.	0.89 ft.lb./in.
	D48/50	Lengthwise	1.27 ft.lb./in.	1.14 ft.lb./in.	1.11 ft.lb./in.
	D48/50	Crosswise	0.85 ft.lb./in.	0.87 ft.lb./in.	.92 ft.lb./in.
	E48/50	Lengthwise	1.15 ft.lb./in.	1.17 ft.lb./in.	1.10 ft.lb./in.
	E48/50	Crosswise	0.89 ft.lb./in.	0.92 ft.lb./in.	0.93 ft.lb./in.
Bond Strength	Condition A D48/50	D229			1,930 pounds
					2,090 pounds
Water Absorption		D570	1.96% of weight	1.18% of weight	.74% of weight
Specific Gravity		D792	1.36	1.35	1.35
U.L. Subject 94		UL94	HB	HB	HB
Dielectric Strength		D149	437 Vpm	357 Vpm	
Dielectric Breakdown:	Condition A D48/50	D149	83 kV	73 kV	57 kV
			32 kV	38 kV	35 kV
Arc Resistance:	Condition A D48/50	D495	143 seconds	148 seconds	63 seconds
			141 seconds	149 seconds	8 seconds
Permittivity, 1MHz:	Condition A D24/23	D150	5.68	6.15	
			6.17	6.05	
Dissipation Factor, 1MHz:	Condition A D24/23	D150	.043	.046	
			.047	.046	
Permittivity, 1KHz:	Condition A D24/23	D150	6.81	7.56	
			8.32	8.27	
Dissipation Factor, 1KHz:	Condition A D24/23	D150	.790	.093	
			.167	.136	
Permittivity, 60 Hz:	Condition A D24/23	D150	7.84	9.49	
			12.35	11.38	
Dissipation Factor, 60 Hz:	Condition A D24/23	D150	.216	.274	
			.395	.377	
Volume Resistivity	Condition A D24/23	D257	4.35E+04 MEG Ohm-cm	1.14E+04 MEG Ohm-cm	
			1.92E+03 MEG Ohm-cm	1.97E+03 MEG Ohm-cm	
Surface Resistance	Condition A D24/23	D257	2.21E+05 MEG Ohm	1.60E+06 MEG Ohm	
			1.49E+05 MEG Ohm	1.97E+05 MEG Ohm	
Coefficient of Linear Thermal Expansion	Lengthwise			2.6 cm/cm/ocx10-5	
			Crosswise		2.15 cm/cm/ocx10-5

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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.

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