

HCR-110 is a fiberglass reinforced thermoset isophthalic polyester sheet having good corrosion resistance to numerous acids and alkalis. This material also exhibits a high level of flame retardancy and low smoke generation. Typical applications for HCR-110 are fume hood liners, weir panels for waste water treatment, and elsewhere when a cost effective general purpose corrosion resistant material is required. Standard color is grey. Sheet sizes are 36" x 72", 48" x 60", and 48" x 96". Thickness is 1/32" through 1".

<u>Property / Units</u>	<u>Test Method</u>	<u>Performance Value</u>	<u>Standard Deviation</u>
Specific Gravity	D-792	1.83	---
Barcol Hardness	D-2538	53	2.1
Water Absorption, %	D-792	.086	---
UL Flame Resistance	UL94	94V-O	0
Flame Resistance, <i>Seconds</i>	D-229		
Ignition Time		97	8.2
Burning Time		35	15.1
Tensile Strength, <i>PSI</i>	D-638	9,200	743
Flexural Strength, <i>PSI</i>	D-790	22,000	2,307
Flexural Modulus, $\times 10^6$	D-790	1.53	.05
Compressive Strength Flatwise, <i>PSI</i>	D-695	33,170	314
Impact Strength, Izod <i>Ft. Lbs./In. (Notch) Edgewise</i>	D-256	6.2	3.27
Shear Strength, <i>PSI</i>	D-229	13,350	232
Arc Resistance, <i>Seconds</i>	D-495	192	1.34
Dielectric Strength, Perpendicular, <i>VPM, Short time in air</i>	D-149	364	191.75
Dielectric Strength, Parallel, <i>KV</i>	D-149	54.6	30
Dissipation Factor, 60 Hz.	D-150	4.49	2.59
Dielectric Constant, 60 Hz.	D-150	5.28	3.01
Incline Plane Track Resistance, <i>Minutes</i>	D-2303	800	---

Unless otherwise indicated, all properties published are based on test performed on standard ASTM test samples and according to ASTM test methods. Values shown are for test samples made from production materials and they are believed to be conservative. No warranty is to be construed, however, in fabricated or molded form, parts may vary considerably from this standard test data. Where specific or unusual applications arise, test should be made on actual parts, and test procedures agreed upon between Haysite Reinforced Plastics and the customer.