

H400 is an advanced composite that combines high temperature resistant and high strength characteristics with static dissipative properties for use as wave and reflow solder pallets. SDL Grade H400 may be used as dedicated or adjustable flow solder carriers as well as surface mount pallets. Listed below are the expected performance properties of this material. H400 is available in snaded thicknesses from 3, 5, 6, 8, 10 and 12mm and in sheet sizes 36" x 72" and 48" x 96". Standard color is Black.

<u>Property</u>	<u>Test Method</u>	<u>Value</u>
<i>Mechanical Properties</i>		
Flexural Strength LW @ 77°F, psi	D-790	32,347
Flexural Strength CW @ 77°F, psi	D-790	34,519
Flexural Strength LW @302°F, psi	D-790	10,664
Flexural Strength CW @302°F, psi	D-790	11,240
Flexural Strength LW @392°F, psi	D-790	6,817
Flexural Strength CW@392°F, psi	D-790	7,252
Flexural Modulus LW @ 77°F, ksi	D-790	2,222
Flexural Modulus CW @ 77°F, ksi	D-790	2,344
Flexural Modulus LW @302°F, ksi	D-790	1,034
Flexural Modulus CW @302°F, ksi	D-790	1,155
Flexural Modulus LW@392°F, ksi	D-790	892
Flexural Modulus CW@392°F, ksi	D-790	986
<i>Electrical Properties</i>		
Surface Resistivity, Ohm/square	D-257	10E5 to 10E9
<i>Physical Properties</i>		
Specific Gravity, g/cm <sup>3</sup>	D-792	1.84
Water Absorption 24hr @ 77°F, %	D-651	0.23
Barcol Hardness	D-2583	45-50
<i>Thermal Properties</i>		
Linear Coeficient of Thermal Expansion, ppm/°F	VSM 77110	7.45
Thermal Conductivity, W/mK	E-1925-06	0.428

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Specific Heat (J/kg °K)	E-1269-05	946

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.