



TECHNICAL DATA

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FLEX TEST (ASTM 790)

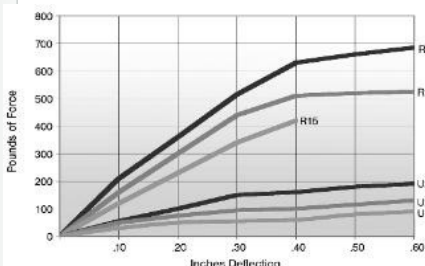
Tests were performed on a 17" span with 1.5" Kay-Cel

material with the following physical properties:

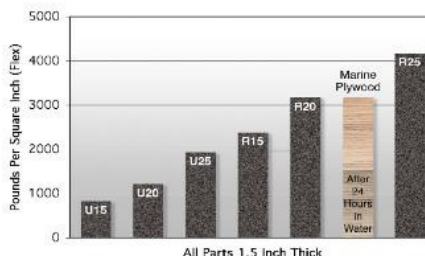


- U15** Unreinforced 15 lbs./cubic foot material.
- U20** Unreinforced 20 lbs./cubic foot material.
- U25** Unreinforced 25 lbs./cubic foot material.
- R15** 15 lbs./cubic foot material twice reinforced with 24/15 fiberglass.
- R20** 20 lbs./cubic foot material twice reinforced with 24/15 fiberglass.
- R25** 25 lbs./cubic foot material twice reinforced with 24/15 fiberglass.

Below you can see how Fiberglass reinforcement increases the strength of Kay-Cel by 300%.



The chart below shows how marine plywood loses 60% of its strength after being submerged for 24 hours.



	Compressive		Tensile		Shear		Flexural	
	Strength	Modulus	Strength	Modulus	Strength	Modulus	Strength	Modulus
U6	160	3900	170	4500	100	1200	220	4400
U10	330	8200	300	8100	170	2000	450	10700
U15	595	14700	465	12950	260	3150	790	17250
U20	890	22300	640	18000	350	4300	1170	36200
U25	1220	30800	820	23300	450	5500	1600	53600
U30	1580	40000	1010	28700	550	6700	2050	73800

Recommended Adhesives Companies:

Graco Supply 1001 Miller Rd. Ft. Worth, TX 76105 Ph: 800.969.0466 www.gracosupply.com	Mas Epoxies 2615 River Rd. #3A Cinnaminson, NJ 08077 Ph: 888.627.3769 www.masepoxies.com
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Density lb./cu. ft.	9-12	13-18	19-25
Maximum Surface Temperature Fahrenheit, dry	200	200	200
"K" Factor, Thermal Conductivity BTU/sq. ft./hr./F./in. (ASTM D2326)	.31-.35	.36-.4	.42-.52
"R" Factor for 1" (x2-2")	3.24-2.86	2.78-2.50	2.39-1.92
Coefficient of Linear Expansion 10 ⁻⁶ in./in./F (ASTM D696)	4	4	4
Dielectric Constant (ASTM D1673)	1.2	1.3	1.4
Dissipation Factor at 28 degrees C. and 1 meg.	0.0032	0.0055	-
Water Absorption % by vol. (96 hrs.) (ASTM D2842)	0.5	0.4	0.2