



105 PARDUE ROAD
PELHAM, AL 35124
205-663-3225
205-663-4645 FAX

Coefficient of Linear Thermal Expansion

ASTM E228

Bluewater Material:	31.013×10^{-6}
Nautical Material:	24.0035×10^{-6}

Above formula is based upon board tested using ASTM E228 for expansion/contraction per 1° Celsius.

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Heat Distortion Temperature (HDT)

Test	Test Method	Nautical 20	Bluewater 26
HDT @ 264 psi loading	ASTM D648	147°F	178°F
HDT @ 66 psi loading	ASTM D648	167°F	221°F

Revision Date 02/24/09

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	Density ASTM C271 (lb/ft ³) / (kg/m ³)	Core Compressive ASTM C365 Strength (psi) / (Mpa) Modulus (psi) / (Mpa)		Core Shear ASTM C273 Strength (psi) / (MPa) Modulus (psi) / (MPa)		Flexural Properties* ASTM D790 Strength (psi) / (MPa) Modulus (psi) / (Mpa)		Flatwise Tensile ASTM C297 Strength (psi) / (MPa)	Water Absorption ASTM C272 % by Weight
Bluewater 26									
0.75" / 20 mm	26 / 416	938 / 6.47	19,919 / 137	582 / 4.01	4,735 / 33	4,328 / 30	280,000 / 1,931	529 / 3.6	1.1
1.375" / 35 mm	26 / 416	1,066 / 7.35	26,545 / 183	652 / 4.50	7,516 / 52	3,920 / 27	231,300 / 1,595	633 / 4.4	
2.00" / 50 mm	26 / 416	870 / 6.00	10,921 / 75	571 / 3.94	6,029 / 42	3,709 / 26	206,600 / 1,425	604 / 4.2	
Bluewater 20									
0.50" / 12 mm	20 / 320	834 / 5.75	7,050 / 49	463 / 3.19	8,432 / 58	3,693 / 25	115,000 / 793		
0.75" / 19 mm	20 / 320	485 / 3.34	8,499 / 59	419 / 2.89	5,357 / 37	3,397 / 23	142,400 / 982		
1.50" / 38 mm	20 / 320	854 / 5.89	26,113 / 180	414 / 2.85	3,932 / 27	3,150 / 22	206,900 / 1,427	627 / 4.3	
1.75" / 45 mm	20 / 320	509 / 3.51	7,213 / 50	242 / 1.67	4,540 / 31	2,592 / 18	179,200 / 1,236	401 / 2.8	
Nautical 24									
0.50" / 12 mm	24 / 384	792 / 5.46	7,819 / 54	689 / 4.75	5,216 / 36	3,831 / 26	109,900 / 758		0.75
0.75" / 20 mm	24 / 384	872 / 6.01	21,503 / 148	556 / 3.83	5,200 / 36				
Nautical 20									
0.50" / 12 mm	20 / 320	506 / 3.49	5,999 / 41	379 / 2.61	3,862 / 27	1,679 / 12	64,460 / 444		
0.75" / 20 mm	20 / 320	590 / 4.07	8,459 / 58	388 / 2.68	4,750 / 33	1,578 / 11	62,870 / 433		
1.75" / 45 mm	20 / 320	429 / 2.96	7,523 / 52	342 / 2.36	5,115 / 35	1,898 / 13	76,100 / 525	279 / 1.9	
Nautical 15									
0.50" / 12 mm	15 / 240	356 / 2.45	4,061 / 28	250 / 1.72	4,298 / 30	1,166 / 8	39,380 / 272		

*ASTM D790 - 3 point Bending, L/d=16/1

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R—Value

Bluewater 26

	R Value*	K Factor**
1/2"	1.30	0.385
3/4"	2.03	0.370
1"	2.56	0.391
1 1/2"	3.80	0.395

Bluewater 20

	R Value*	K Factor**
1/2"	1.50	0.333
3/4"	2.23	0.337
1"	2.46	0.406
1 1/2"	3.70	0.405

Nautical 24

	R Value*	K Factor**
1/2"	1.50	0.333
3/4"	2.23	0.336
1"	2.62	0.382
1 1/2"	4.00	0.375

Nautical 20

	R Value*	K Factor**
1/2"	1.50	0.333
3/4"	2.24	0.335
1"	3.16	0.316
1 1/2"	4.79	0.313

Nautical 15

	R Value*	K Factor**
1/2"	1.50	0.333
1"	2.92	0.343
1 1/2"	4.40	0.341

*R Value= thickness / K Factor

** ASTM C177

Revision Date: 03/05/07

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