

### Manufacturers of Precision Board

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# Precision Board Plus™ PBHT-18

#### **DESCRIPTION & APPLICATION:**

PBHT-18 Plus is a rigid, High Density Urethane, (HDU), Tooling/Modeling board designed for Prototype Machining, Water Jet cutting, Pattern Making, Thermoforming, Prepreg Composite Layup Tooling, Vacuum Form Tooling, Tool Path Proofing, Lost Wax Casting Masters, Master Model Making, Artistic Carving Blocks, Indoor and Outdoor Signage. PBHT Plus is made in the USA.

Precision Board Plus PBHT is formulated with eco-friendly, "Green" urethane components. The new Plus material has a Certified "Carbon Foot Print" of 3 to 1 and a Certified "Rapidly Renewable Green Resource Content" of 11.9%. This means each 3"x 4'x8' sheet of PBHT-20 saves 19 pounds of plastic material which assists meeting LEED requirements for obtaining USGBC and ICC 700 building credits.

Precision Board Plus PBHT does not contain: CFCs or VOCs. See MSDS for details.

Precision Board Plus PBHT comes in standard sizes of 20"x60", 24"x60", 30"x80", 45"x60" 4'x8', 4'x10', 5'x8' and 5'x10'. Thickness ranges from 1/2" to 24". Custom bonded blocks available in <u>any</u> size. PBHT Densities are 15, 18, 20, 30, 34, 40, 48, 60, 70, & 75 pcf. Other densities available.

Precision Board Plus is **non-abrasive**, can be machined with HSS bits or cut with any standard cutting tool. PBHT's tight cell structure allows adjusting spindle speed & table feed to produce either chips or dust as desired. Check Coastal's on-line Onsrud Router Search guide for most efficient cutter bit for desired speeds & feeds. PBHT Plus <u>does not outgas</u> or affect prepreg resin cure.

See FAQ for important oven/autoclave ramping procedures and other pertinent information. \*\*

PBHT can be bonded to itself or most other substrates using Coastal Enterprises' one part urethane adhesives: PB Bond-240 and PB Fast Set or EP-76, a two part, epoxy adhesive.

#### **PHYSICAL PROPERTIES:**

ASTM D-1623	18 lbs/Cubic Foot
	10 105/ 24012 1 001
ASTM D-1621	869 psi
ASTM D-1621	34,750 psi
ASTM D-1623	573 psi
ASTM D-1623	57,625 psi
ASTM C-273	478 psi
ASTM C-273	7,762 psi
ASTM D-790	875 psi
ASTM D-790	27,460 psi
ASTM D-2240	46
	5.3%
ASTM D-2126	1.2% Max.
ASTM D-2842	0.01% by Vol. after 96 hrs.
ASTM D-2856	97%
ASTM C-177	0.771
0°F 4.6 oz. 1" Dia. 9'6" drop	No cracking observed
ASTM D-2126, 25 Cycles	No disbonding or distortion occurred
ASTM D-3273	Does not support growth
ASTM D-1678	1.3
Dry	300° F
TE)	26 X 10 <sup>-6</sup> °F
DMA/TMA	284°F
ASTM E-1269	0.235
Precision Board does not contain: Chlorinated Fluorocarbons (CFC's) or Volatile Organic Compounds (VOC's)	
FAR 25.853 Vertical Burn	Pass
MIL P 26514 Burn Test	Pass
ASTM D-1692-74 Burn Test	Pass
	ASTM D-1621 ASTM D-1623 ASTM D-1623 ASTM C-273 ASTM C-273 ASTM D-790 ASTM D-790 ASTM D-2240  ASTM D-2240  ASTM D-2240  ASTM D-2126 ASTM D-2856 ASTM C-177 0°F 4.6 oz. 1" Dia. 9'6" drop ASTM D-2126, 25 Cycles ASTM D-3273 ASTM D-1678 Dry TE) DMA/TMA ASTM E-1269 orinated Fluorocarbons (CFC's) or FAR 25.853 Vertical Burn MIL P 26514 Burn Test

ASTM D635-06 Burn Test Pass

Follow heat temperature ramping of 1°F up per minute & 2°F down per minute. See FAQ for additional data.

## Any Questions please contact Coastal Enterprises Company (800) 845-0745 www.PrecisionBoard.com

WARRANTY: All recommendations for product use have been derived from experience and test data believed to be reliable. We warrant and guarantee the uniformity of our products within manufacturing tolerance. However, since the use of our products are beyond our direct control, they are furnished upon the condition that each party shall make his/her own tests to determine their suitability for his/her particular purpose. Except as stated herein, Coastal Enterprises Company makes no warranty or guarantee, expressed or implied, and disclaims all responsibility for results obtained, nor assumes any liability for any damages, whether arising out of negligence or breach of guarantee and is hereby expressly limited to replacement of product only. For additional information on product handling, please refer to Precision Board Plus MSDS.