



**Manufacturers of  
Precision Board**

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# Precision Board Plus™

## PBLT-20

### **DESCRIPTION:**

PBLT-20 is a rigid urethane board that is designed for Prototype Machining, Thermoforming, Prepreg Composite Layup Tooling, Vacuum Form Tooling, Tool Proofing, Pattern Making, Master Model Making, indoor & outdoor signage.

Precision Board Plus PBLT comes in standard sizes of 20" x 60", 24" x 60", 4' x 8', 4' x 10', 5' x 8' and 5' x 10'. Thicknesses range from 1/2" to 24". Other special sizes and custom bonded shapes are available upon request. Standard densities are available in 4, 6, 8, 10, 12, 15, 18, 20, 30, 40 and 48 pounds per cubic foot (pcf). Other special densities are available.

Precision Board Plus PBLT-20 has been reformulated with eco-friendly, "Green" urethane components. The new Plus formulations have achieved a "Carbon Balance" of 3 to 1 and a "Rapidly Renewable Green Resource Content" of 18.9%. This has also allowed a tighter cell structure which results in more chips and less dust during cutting and machining.

### **APPLICATION:**

Precision Board PBLT is **non-abrasive** and can be machined and cut with HSS cutters, or any standard cutting tool. PBLT Plus does not outgas or affect prepreg resin cure. See FAQ for Ramping procedures and other pertinent information.

PBLT can be bonded to itself or most other substrates using Coastal Enterprises' single component urethane adhesives: PB Bond-240 and PB Fast Set, or EP-76 epoxy adhesive.

### **PHYSICAL PROPERTIES:**

Density	ASTM D-1623	20 lbs/Cubic Foot
Compressive Strength	ASTM D-1621	600 psi
Compressive Modulus	ASTM D-1621	23,206 psi
Tensile Strength	ASTM D-1623	392 psi
Tensile Modulus	ASTM D-1623	6,843 psi
Shear Strength	ASTM C-273	229 psi
Shear Modulus	ASTM C-273	3,193 psi
Flexural Strength Method 1A	ASTM D-790	629 psi
Flexural Modulus Method 1 A	ASTM D-790	34,201 psi
Hardness -	Shore D	29
Elongation		6.7%
Dimensional Stability	ASTM D-2126	1.2% Max.
Water Absorption	ASTM D-2842	0.01% by Vol. after 96 hrs.
Closed Cell Content	ASTM D-2856	97%
"K" Value Insulation Factor	ASTM C-177	0.543
Impact Resistance	0° 4.6 oz. 1" Dia. 9'6" drop	No cracking observed
Freeze Thaw	ASTM D-2126, 25 Cycles	No disbonding or distortion occurred
Mold and Mildew Resistance	ASTM D-3273	Does not support growth
Dielectric Constant	ASTM D-1678	1.3
Maximum Service Temperature	Dry	200° F
Coefficient of Thermal Expansion (CTE)		20 X 10 <sup>-6</sup> °F
Glass Transition	DMA	219°F
Precision Board does not contain:	Chlorinated Fluorocarbons (CFC's) or	Volatile Organic Compounds (VOC's)
Flammability Tests:	FAR 25.853 Vertical Burn	Pass
	MIL P 26514 Burn Test	Pass
	ASTM D-1692-74 Burn Test	Pass

**Any Questions please contact Coastal Enterprises Company  
(800) 845-0745**

**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.