



Precision Board

Tooling Board

PBLT-4

Manufacturers of
Precision Board

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Product Data Sheet

DESCRIPTION:

Precision Board, PBLT, is a rigid urethane tooling board that is designed for Prototype Machining, Prepreg Composite Layup Tooling, Vacuum Form Tooling, Tool Proofing, Pattern Making, and Master Model Making.

PBLT is designed to perform at 200°F and does not outgas or affect prepreg resin cure. PBLT has a low CTE.

Precision Board 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 20". Other special sizes are available upon request. Densities are available in 4, 6, 10, 12, 15, 18, 20, 30, and 40 pounds per cubic foot (pcf). Other special densities are available upon request.

APPLICATION:

Precision Board is non-abrasive and can be machined and cut with HSS cutters, or any standard cutting tool.

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

PHYSICAL PROPERTIES:

| | | |
|--|------------------------------|--------------------------------------|
| Density | ASTM D-1622 | 4 lbs/Cubic Foot |
| Compressive Strength | ASTM D-1621 | 73 PSI |
| Tensile Strength | ASTM D-1623 | 58 PSI |
| Shear Strength | ASTM D-273 | 25 PSI |
| Dimensional Stability | ASTM D-2126 | 1.2% Max. |
| Water Absorption | ASTM D-2842 | 0.056% by Vol. after 96 hrs. |
| Closed Cell Content | ASTM D-2856 | 97% |
| "K" Value Insulation Factor | ASTM C-177 | 0.291 |
| Impact Resistance | O° 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) | | 32 X 10 ⁻⁶ °F |
| Precision Board does not contain any Chlorinated Fluorocarbons (CFC's) | | |
| Flammability Tests: | FAR 25.853 Vertical Burn | Pass |
| | MIL P 26514 Burn Test | Pass |
| | ASTM D-1692-74 Burn Test | Pass |

**For questions regarding the use of Precision Board PBLT,
please contact Coastal Enterprises Company
at (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 PBLT MSDS