

PUBOARD 1650

High density Polyurethane Tooling Board

APPLICATIONS

PUBOARD 1650 is a polyurethane tooling board for jigs, checking fixtures, molding tools and foundry patterns.

FEATURES

- Low coefficient of thermal expansion • Dense surface with high density
- High strength • Well workable
- Good edge stability • Low dust when milling

PHYSICAL PROPERTIES

Product	PUBOARD1650
Color	Beige
Density	1.65±0.05g/cm3

MECHANICAL PROPERTIES

Property	Test standard	PUBOARD 1650
Hardness	ISO868:2003	Shore D 84
Heat deflection temperature	DINENISO75B	80°C
Flexural strength	ENISO178	60MPa
Flexural modulus	ENISO178	800MPa
Compressive strength	ENISO604	95MPa
Impact strength	ENISO179	8.0KJ/m2
Coefficient of linear thermal expansion	ENISO113590-2	$43 \times 10^{-6} \text{ K}^{-1}$

PROCESSING GUIDELINES

Advices for machining of board material

- Roughing of geometry
- Remove clamps and, where possible, leave the workpiece overnight
- Finishing

For bonding we recommend our adhesive EPBOND 2016.

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AVAILABLE BOARD DIMENSIONS

700*500*50mm

700*500*75mm

700*500*100mm

Machining blocks can be produced by casting into polystyrene molds and then milled to make jigs, checking fixtures, molding tools and patterns.

HANDLING PRECAUTIONS

Process in a well-ventilated area. Avoid skin contact during machining and wear gloves, a mask, safety glasses and protective clothing. For further information, consult the material safety data sheet.

NOTE:

The data above is tested at specific conditions. Processing procedure and conditions might vary in practical applications, therefore it is recommended to carry out tests where necessary before using the product, and to ensure the product could meet the actual requirement. We at EPTEK guarantee that our products meet our highest quality management regulations.

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US customary-unit equivalents

US customary-unit equivalents are provided for convenience alongside the original SI test data. The original source values and test methods remain the controlling reference. Converted values are rounded.

Source value	US equivalent
1.65±0.05 g/cm ³	103 ± 3.121 lb/ft ³
80 °C	176 °F
60 MPa	8702 psi
800 MPa	116030 psi
95 MPa	13779 psi
700*500*50 mm	27.6 × 19.7 × 1.969 in (2.297 × 1.64 × 0.164 ft)
700*500*75 mm	27.6 × 19.7 × 2.953 in (2.297 × 1.64 × 0.2461 ft)
700*500*100 mm	27.6 × 19.7 × 3.937 in (2.297 × 1.64 × 0.3281 ft)