

PUBOARD 1350

Polyurethane Tooling Board

APPLICATIONS

PUBOARD 1350 is a polyurethane tooling board for core boxes, foundry patterns and matchplates in cold-box processes, as well as molds, tools and gauges.

FEATURES

- High abrasion resistance • Good dimensional stability
- Low coefficient of thermal expansion • High mechanical strength and edge stability
- Very good dust-free milling property •

PHYSICAL PROPERTIES

Product	PUBOARD 1350
Color	Blue
Density	1.35±0.05g/cm3

MECHANICAL PROPERTIES

Property	Test standard	PUBOARD 1350
Hardness	ISO868:2003	Shore D 85±2
Heat deflection temperature	ISO75B	90±5°C
Flexural strength	ISO178	140±10MPa
Flexural modulus	ISO178	3600±200MPa
Compressive strength	ISO604	130±10MPa
Impact strength	ISO179	43±5KJ/m2
Coefficient of linear thermal expansion	ISO11359-2	60±5 × 10 ⁻⁶ K ⁻¹

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PROCESSING GUIDELINES

Advices for machining of board material

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

AVAILABLE BOARD DIMENSIONS

1500*500*50mm

1500*500*75mm

1500*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
1.35±0.05 g/cm ³	84.3 ± 3.121 lb/ft ³
90±5 °C	194 ± 9 °F
140±10 MPa	20305 ± 1450 psi
3600±200 MPa	522136 ± 29008 psi
130±10 MPa	18855 ± 1450 psi
1500*500*50 mm	59.1 × 19.7 × 1.969 in (4.921 × 1.64 × 0.164 ft)
1500*500*75 mm	59.1 × 19.7 × 2.953 in (4.921 × 1.64 × 0.2461 ft)
1500*500*100 mm	59.1 × 19.7 × 3.937 in (4.921 × 1.64 × 0.3281 ft)