

PUBOARD 1050

Polyurethane Tooling Board

APPLICATIONS

PUBORAD 1050 is the mid-density polyurethane slab designed for the production of master model, core boxes, foundry patterns, checking fixtures and diverse moulds, tools and gauges.

FEATURES

- Low density
- Low coefficient of thermal expansion
- Fine structure
- High mechanical strength and edge stability

PHYSICSL PROPERTY

Product	PUBOARD 1050
Color	Light grey
Density	$1.05 \pm 0.05 \text{ g/cm}^3$

MECHANICAL PROPERTY

Property	Test standard	PUBOARD 1050
Hardness	ISO 868 : 2003	Shore D 78 $\pm$ 2
Heat distortion temperature	ISO 75B	95 $\pm$ 5 °C
Flexural strength	ISO 178	50 $\pm$ 5 MPa
Flexural modulus	ISO 178	2500 $\pm$ 300 MPa
Compressive strength	ISO 604	50 $\pm$ 6 MPa
Impact strength	ISO 179	9 $\pm$ 1 KJ/m ²
Coefficient of linear thermal expansion (20-50°C)	ISO 11359-2	60 $\pm$ 5*10 ⁻⁶ K ⁻¹

PROCESSING GUIDELINES

Advices for machining of board material

- Roughing of geometry
- Removing of clamps, if possible over night
- Clamping
- Finishing

AVAILABLE BOARD DIMENSIONS

1500*500*50mm
1500*500*75mm
1500*500*100mm

Machining block could be obtained by mass casting in polystyrene moulds and intended for milling of jig, checking fixture, moulding tools and patters.

HANDLING PRECAUTIONS

It should be processed at well-ventilated room; avoid to contact with skin during machining process; wear gloves, mask, safety glass and protective clothing.

For further information, please consult 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.