

Board Material

Polyurethane Board for Tools and Molds

Key Properties

- Very dense surface structure, can be polished
- Easily machined
- Good heat resistance
- High abrasion resistance

Applications

- Sheet metal forming
- Vacuum forming
- Tooling jigs
- Molds for foam and rapid prototyping

Mechanical Properties

			WB-1700
Color	visual		Dark gray
Density	ASTM D-792	g/cm ³ (lb/ft ³)	ca. 1.70 (ca. 106)
Shore hardness D	ASTM D-2240		85 – 90
Coefficient of thermal expansion	ASTM D-3386	10 ⁻⁶ K ⁻¹ (in/in/°F x 10 ⁻⁶)	45 – 50 (25 – 28)
Deflection temperature, HDT	ASTM D-648	°C (°F)	120 – 125 (248 – 257)
Compressive strength	ASTM D-695	MPa (psi)	125 – 130 (18,000 – 19,000)
Flexural strength	ASTM D-790	MPa (psi)	80 – 85 (12,000 – 12,000)

Processing

The product should have a temperature of 20°C – 25°C C (68-77°F) during processing.

Packaging

RAKU® TOOL WB-1700	750 x 500 x 50 mm (29.5 x 19.7 x 2.0 in) 750 x 500 x 100 mm (29.5 x 19.7 x 3.9 in)
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Storage

The material should be stored flat and in a dry place. Temperature variations should be avoided during storage and transportation.

Handling Precautions

Good workplace ventilation is to be ensured during processing. At the same time, the employer's liability insurance association's industrial hygiene safety regulations regarding the handling of reaction resins and their hardeners are to be observed. Please take heed of the appropriate safety data sheets.

For information on adhesives and repair pastes see the corresponding individual technical data sheets.