

Board Material

Polyurethane Board for Tools and Molds

Key Properties

- Very high abrasion resistance whilst good dimensional stability and accuracy
- Homogeneous surface
- High impact strength, good edge strength
- Very easily machined
- Excellent resistance to chemicals, no swelling

Applications

- Pattern plates
- Core boxes

Mechanical Properties

			WB-1258
Color	visual		Orange
Density	ASTM D-792	g/cm ³ (lb/ft ³)	ca. 1.20 (ca. 74.9)
Shore hardness D	ASTM D-2240		80 – 85
Coefficient of thermal expansion	ASTM D-3386	10 ⁻⁶ K ⁻¹ (in/in/°F x 10 ⁻⁶)	70 – 75 (39 – 42)
Glass Transition Temperature, Tg	DSC	°F (°C)	70 – 75 (158 – 167)
Compressive strength	ASTM D-695	MPa (psi)	90 – 100 (13,100 – 14,500)
Flexural strength	ASTM D-790	MPa (psi)	100 – 110 (14,500 – 16,000)
Abrasion	Taber	mm ³ /100R	50 – 55

Processing

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

Packaging

RAKU® TOOL WB-1258

1000 x 500 x 30 mm
(39.4 x 19.7 x 1.2 in)
1000 x 500 x 50 mm
(39.4 x 19.7 x 2.0 in)
1000 x 500 x 75 mm
(39.4 x 19.7 x 3.0 in)
1000 x 500 x 100 mm
(39.4 x 19.7 x 3.9 in)

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.