

RAKU-TOOL® WB-1405

Board Material

Polyurethane Board for Tools and Molds

PC - Rev.-Status: 01- 2008/06/03

Page 1 of 2

Key Properties

- Dense surface structure
- Very easily machined
- Good dimensional stability
- Good abrasion resistance and impact strength

Applications

- Pattern plates and core boxes
- Machined negatives and positives
- Models, molds and tools
- Hammer forms

Mechanical Properties

			WB-1405
Color	visual		Red
Density	ASTM D-792	g/cm ³ (lb/ft ³)	1.40 (87.5)
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)	50 – 55 (28 – 31)
Deflection temperature, HDT	ASTM D-648	°C (°F)	75 – 80 (167–176)
Compressive strength	ASTM D-695	MPa (psi)	85 – 95 (12,300 – 13,800)
Flexural strength	ASTM D-790	MPa (psi)	80 – 90 (11,600 – 13,100)

Processing

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

Packaging

RAKU-TOOL® WB-1405	1000 x 500 x 50 mm (39.4 x 19.7 x 2.0 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.

RAKU-TOOL[®] WB-1405

Board Material

Polyurethane Board for Tools and Molds

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.