

TECHNICAL DATASHEET

RAKU-TOOL® WB-1404



TOOLING

COMPOSITES

Board Material

Polyurethane Board for Tools and Molds

Key Properties

- Good styrene resistance
- High compressive modulus
- Good amine resistance
- Good abrasion resistance
- Resistant to dry ice cleaning
- Can be polished
- Low coefficient of thermal expansion

Applications

- Checking fixtures for metal parts
- Models and molds for polyester applications
- Models and molds for composites applications
- Hammer tools
- Vacuum forming tools
- Foundry models
- Foundry pattern plates and core boxes
- Molds for low pressure RIM

Mechanical Properties

| | | | WB-1404 |
|----------------------------------|-----------|----------------------------------|----------|
| Color | visual | | Olive |
| Density | ISO 1183 | g/cm ³ | ca. 1.40 |
| Shore hardness D | ISO 868 | | 85 – 90 |
| Coefficient of thermal expansion | ISO 11359 | 10 ⁻⁶ K ⁻¹ | 50 – 55 |
| Deflection temperature, HDT | ISO 75 | °C | 75 – 80 |
| Compressive strength | ISO 604 | MPa | 85 – 95 |
| Flexural strength | ISO 178 | MPa | 80 – 90 |

Processing

The product should have a temperature of 20°C – 25°C during processing.

Packaging

| | |
|--------------------|---------------------|
| RAKU-TOOL® WB-1404 | 1000 x 500 x 30 mm |
| | 1000 x 500 x 50 mm |
| | 1000 x 500 x 75 mm |
| | 1000 x 500 x 100 mm |

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.