

## Board Material

### Polyurethane Board for Tools and Molds

#### Key Properties

- Fine surface structure
- High HDT and very low CTE
- Good dimensional stability
- Good compressive and flexural strength

#### Applications

- Master models
- Cubing models
- Tooling jigs and fixtures
- Vacuum forming tools

#### Mechanical Properties

|                                  |             |                             | WB-0801           |
|----------------------------------|-------------|-----------------------------|-------------------|
| Color                            | visual      |                             | Gray              |
| Density                          | ASTM D-792  | lb/ft <sup>3</sup>          | ca. 49.9          |
| Shore hardness D                 | ASTM D-2240 |                             | 65 – 70           |
| Coefficient of thermal expansion | ASTM D-3386 | in/in/°F x 10 <sup>-6</sup> | 25 – 28           |
| Deflection temperature, HDT      | ASTM D-648  | °F                          | 185 – 194         |
| Compressive strength             | ASTM D-695  | psi                         | 5,800 – 6,500     |
| Flexural strength                | ASTM D-790  | psi                         | 5,100 – 5,800     |
| Flexural modulus                 | ASTM D-790  | psi                         | 220,000 – 230,000 |

#### Processing

The product should have a temperature of 68-77°F during processing.

#### Packaging

RAKU® TOOL WB-0801

59.1x19.7x [1, 2, 3, 3.9, 5.9] in

#### Storage

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



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### **Handling Precautions**

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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.

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