# BP1404

HIGH-DENSITY POLYURETHANE (PU) TOOLING MATERIAL



BP1404 is a high-density, abrasion resistant, polyurethane (PU) tooling material, designed for use in a wide range of applications including thermoforming, vacuum forming, hammer and metal forming, foundry patterns and Reactive Injection Moulding (RIM).

## APPLICATIONS

BP1404 can be used for the following applications:

- Vacuum forming
- Thermoforming
- Hammer or metal forming
- Foundry patterns and plates
- Core boxes
- Reactive Injection Moulding (RIM)
- Jigs and fixtures

## FEATURES & BENEFITS

BP1404 provides an excellent surface finish and is easy to machine

- Excellent surface finish
- Excellent dimensional stability
- High compressive strength
- Abrasion resistant
- Easy to machine
- Inert surface

## TECHNICAL PROPERTIES

| PROPERTY | VALUE | TEST METHOD |
|---|---|---|
| COLOUR | Green | - |
| HARDNESS, SHORE D (+/-5) | 85 | ISO 868 |
| DENSITY, KG/M$^3$ | ca. 1400 | ISO 1183-1 |
| DEFLECTION TEMPERATURE (TG), ˚C (+/-5) | 80 | ISO 11357 |
| COEFFICIENT OF THERMAL EXPANSION (CTE) ˚C $10^{-6}K^{-1}$ (+/-5) | 80 | ISO 11359 |
| FLEXURAL STRENGTH, MPA (+/-5) | 77 | ISO 178 |
| COMPRESSIVE STRENGTH, MPA (+/-5) | 80 | ISO 604 |
| ABRASION, MM$^3$/100R | <30 | Taber, H18, 500g |

## BOARD SIZES

BP1404 is available in a range of sizes (length x width +/- 3mm x depth +/- 0.5mm) **1000mm x 500mm x 50mm**

**1000mm x 500mm x 75mm**

**1000mm x 500mm x 100mm**

**1515mm x 608mm x 50mm**

**1515mm x 608mm x 75mm**

**1515mm x 608mm x 100mm**

## ANCILLARY MATERIALS

BP1404 is available with material adhesives, repair pastes, sealers and release agents.

## STORAGE OF MATERIAL

The boards must be stored indoors, on a flat dry surface. Temperature variations must be avoided during transportation and storage.

Base Materials is an expert in high-performance syntactic materials for a wide range of industries including automotive, aerospace, foundry, manufacturing, marine, motorsport, rail and subsea.

Customers are at the heart of what we do. Our proven high-quality solutions are engineered to meet your challenging application requirements.

## CONTACT US

+44 (0)116 286 5073

sales@base-materials.com

**www.base-materials.com**

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