

# BP1700

HIGH-DENSITY POLYURETHANE (PU) TOOLING MATERIAL



BP1700 is a high-density, abrasion resistant, polyurethane (PU) tooling material, designed for use in a wide range of applications including vacuum forming, thermoforming, hammer and metal forming, foundry patterns and pattern plates and Reactive Injection Moulding (RIM).



## APPLICATIONS

BP1700 can be used for the following applications:

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

## FEATURES & BENEFITS

BP1700 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                                                                            | Dark Blue | -                |
| HARDNESS, SHORE D (+/-5)                                                          | 93        | ISO 868          |
| DENSITY, KG/M <sup>3</sup>                                                        | ca. 1785  | ISO 1183-1       |
| DEFLECTION TEMPERATURE (TG), °C (+/-5)                                            | 130       | ISO 11357        |
| COEFFICIENT OF THERMAL EXPANSION (CTE) °C 10 <sup>-6</sup> K <sup>-1</sup> (+/-5) | 39        | ISO 11359        |
| FLEXURAL STRENGTH, MPA (+/-5)                                                     | 85        | ISO 178          |
| COMPRESSIVE STRENGTH, MPA (+/-5)                                                  | 125       | ISO 604          |
| ABRASION, MM <sup>3</sup> /100R                                                   | <30       | Taber, H18, 500g |

## BOARD SIZES

BP1700 is available in a range of sizes  
(length x width +/- 1mm x depth +/- 0.5mm)

**1000mm x 500mm x 50mm**

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

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

## ANCILLARY MATERIALS

BP1700 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

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