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.

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