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^3	ca. 1785	ISO 1183-1
DEFLECTION TEMPERATURE (TG), ˚C (+/-5)	130	ISO 11357
COEFFICIENT OF THERMAL EXPANSION (CTE) ˚C $10^{-6}K^{-1}$ (+/-5)	39	ISO 11359
FLEXURAL STRENGTH, MPA (+/-5)	85	ISO 178
COMPRESSIVE STRENGTH, MPA (+/-5)	125	ISO 604
ABRASION, MM^3/100R	<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.

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