

Description

Low density, cost effective, 48kg/m³ polyurethane (PU) foam block, easy and fast to cut and shape by hand, ideal for composite pattern making. Also suitable for use as a buoyancy foam or non-structural core material.

Key Features

- Easy and fast to cut and shape by hand
- Light-weight
- Low cost
- Dimensionally stable
- Compatible with epoxy, polyester and vinylester resin systems
- Can be finished to a high standard with a range of surface coats

Specification

Polyurethane foam is one of the best and most widely used pattern making materials in composites. PU foam is cost-effective, dimensionally stable, easy to cut and shape and is compatible with a wide range of surface coats and resin systems making it the perfect starting point for any pattern making project where you will be hand shaping the pattern.

This low density version of our rigid PU foam block is lighter, cheaper and faster to cut and shape than our Medium Density Polyurethane Foam Block but will result in a less sturdy pattern which cannot be finished to quite as high a standard as the higher density foam.

Block Size

PF40 is held in a thicknesses of 100mm (4"). it is available n the following block sizes:

- 1220mm x 1220mm
- 1220mm x 600mm
- 600mm x 600mm
- 300mm x 300mm.

Properties

| Property | Unit | Method | Value |
|---------------------------------|-------------------------|----------|-------|
| Density | kg/m ³ | - | 48 |
| Tensile Strength | kPa | BS4370:1 | 450 |
| Compressive Strength | kPa | BS4370:1 | 350 |
| Shear Strength | kPa | BS4370:2 | 375 |
| Cross Break Strength | kPa | BS4370:1 | 540 |
| Glass Transition Temperature | °C | - | 70 |
| Dimensiona Stabil. 70°C 7 days | % | BS4370:1 | <+0.5 |
| Dimensiona Stabil. 50°C 7 days | % | BS4370:1 | <+0.5 |
| Dimensiona Stabil. -20°C 7 days | % | BS4370:1 | 0 |
| Internal Thermal Conductivity | W/m ² K@10°C | BS874 | 0.03 |

Health & Safety Precautions

- Wear respiratory protection when cutting or machining
- Always work in a well ventilated environment
- Wear gloves, safety glasses and waterproof clothes
- Do no smoke when machining

For further information, consult the product safety data sheet.

Disclaimer

This data is not to be used for specifications. Values listed are for typical properties and should not be considered minimum or maximum. Our technical advice, whether verbal or in writing, is given in good faith but Easy Composites Ltd gives no warranty; express or implied, and all products are sold upon condition that purchasers will make their own tests to determine the quality and suitability of the product for their particular application and circumstances.

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Leaders in materials, equipment and training for advanced composites

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