# Memory Foam

Grade reference: AF50M | Viscoelastic (Memory) Polyurethane Foam

## PRODUCT DESCRIPTION

A temperature-sensitive viscoelastic polyurethane foam that softens with body heat and moulds to the contours of the user, then slowly recovers when pressure is removed. Engineered for pressure-relief and orthopaedic applications, the material is best used as a top layer bonded to a firmer base. It meets the requirements of Schedule 1, Part 1 of the Furniture and Furnishings (Fire) (Safety) Amended Regulations 1989.

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| FIRE PERFORMANCE | Meets Schedule 1, Part 1 of the Furniture and Furnishings (Fire) (Safety) Regulations 1988 (as amended). Suitable for use in furniture and furnishings manufactured for sale within the United Kingdom. |

## TECHNICAL SPECIFICATIONS

| PROPERTY | TEST STANDARD | VALUE | UNIT |
|---|---|---|---|
| Nominal density range | BS EN ISO 845:1995 | 48 - 52 | kg/m³ |
| Nominal hardness (40% indentation) | BS EN ISO 2439 | 70 - 100 | N |
| Nominal tensile strength | BS EN ISO 1798 | ≥ 50 | kPa |
| Nominal elongation at break | BS EN ISO 1798 | ≥ 180 | % |
| Resilience | BS EN ISO 8307 | ≤ 16 | % |
| Recovery rate | Internal | 5 - 20 | s |
| Compression set (50%) | BS EN ISO 1856 | ≤ 12 | % |
| Standard supply colour | - | White | - |

## TYPICAL APPLICATIONS

Mattress toppers (the most common application), pillows and cervical supports, orthopaedic dog beds, wheelchair and pressure-relief cushions, and medical and care-home applications. Best specified as a 50 mm (2″) top layer bonded to a firmer base such as Reflex400 or AF38, rather than used alone.

## SUPPLY FORMATS

Available in sheet, block, profile and bespoke cut-tosize formats. Cut-to-size service included at no extra cost. Custom converting and lamination available on request. Contact the All Foam technical team for nonstandard dimensions and tolerances.

The information in this document is intended as a general technical guide and is based on data believed to be accurate at the date of issue. Values shown are typical and are not guarantees of performance, service life, fitness for a particular purpose or regulatory compliance. Customers are responsible for confirming product suitability for their intended application. ALL FOAM PRODUCTS LTD reserves the right to update product data without prior notice.