Ethafoam STPE200 Semi-Rigid Foam

Grade reference: STPE200 | Semi-Rigid Non-Cross-Linked Expanded Polyethylene Foam

PRODUCT DESCRIPTION

STPE200 is a semi-rigid, non-cross-linked, closed-cell expanded polyethylene foam manufactured for cushioning, gap-filling and impact-absorption applications. The material offers consistent compression characteristics, low water absorption and dimensional stability across a wide operating temperature range. Not fire retardant; contact the Technical Department for flame-retardant alternatives where required.

TECHNICAL SPECIFICATIONS

PROPERTY	TEST STANDARD	VALUE	UNIT
Density	DIN 53420	24	kg/m³
Tensile strength - extrusion direction	DIN 53571	0.219	N/mm²
Tensile strength - cross direction	DIN 53571	0.170	N/mm²
Elongation at break - extrusion direction	DIN 53571	67	%
Elongation at break - cross direction	DIN 53571	52	%
Compression strength at 25% (4th compression)	DIN 53577	0.024	N/mm²
Compression strength at 50% (4th compression)	DIN 53577	0.081	N/mm²
Compression strength at 70% (4th compression)	DIN 53577	0.200	N/mm²
Thermal stability (24 h at 70 °C)	ASTM D-3575-S	< 0.5	%
Cell size	BS 4443/1 Met. 4	> 20	cells / 25 mm
Water absorption (24 h)	DIN 53428	1.19	vol %
Working temperature range	Internal	-30 to +80	°C

TYPICAL APPLICATIONS

Cushioning and protective packaging for medium and heavy items in transit; gap-filling between structural members and protective barriers; shock-absorbing layers within column, post and rack protection systems; thermal and vibration insulation in industrial assemblies.

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.