

KEMMETECH VINYL FOAMS

PRODUCT SPECIFICATION AND TECHNICAL DATA SHEET - UNSUPPORTED AND SUPPORTED FOAMS

Kemmetech manufacture a comprehensive range of open and closed cell vinyl foams at its plant in Kent, England. Kemmetech's foam products are available in a variety of densities, thickness and colour, for supply to manufacturers and converters.

Typical applications include:

- Protection Pads (Glazing Applications)
- Tapes (Glazing and Construction)
- Gaskets and Sealants (Automotive and Engineering)
- Padding (General Purpose)

The foam is supplied individually shrunk wrapped in roll form, either 'Unsupported' (without paper-backing) or Supported (cast-on to backing paper). In the latter case, the foam is supplied on double-sided casting paper, thereby making it suitable for reverse-wound products.

STANDARD PRODUCT CHARACTERISTICS

Characteristic	Standard Options Available
Density (Target)	112Kg/M ³ , 145Kg/M ³ , 185Kg/M ³ , 235Kg/M ³ , 275Kg/M ³ , 335Kg/M ³ , 375Kg/M ³ , 400Kg/M ³ (Non-standard densities available by prior arrangement)
Width	600mm (minimum) - 1600mm (maximum).
Thickness	1.0mm - 10.0mm inclusive (including 0.5 mm's).
Roll Length	In Metre multiples to suit customer requirement.
Colours	Standard: Black, White & Grey. Colours as required

NOTES

- There is a +/-10% manufacturing tolerance on all weights and measurements.
- Foams are quick recovery (QR) as standard but slow recovery/closed cell (SR) versions in the 112kg/m³ and 145kg/m³ target densities are also available at the same price.
- Non-standard densities, widths and colours are available upon request.

MINIMUM ORDERS

The minimum order quantity (MOQ) is dependent on the specification of the material required. Please note, it is usually not viable to accept orders of less than 2000M€ for our foam products. Mixed thickness orders are acceptable where there is 500M€ minimum per thickness.

KEMMETECH VINYL FOAMS - SPECIFICATIONS

Performance Characteristic	Target Density 112Kg/M ³ (QR)	112Kg/M ³ (SR)	145Kg/M ³ (QR)	145Kg/M ³ (SR)	185Kg/M ³ (QR)	235Kg/M ³ (QR)	275Kg/M ³ (QR)	335Kg/M ³ (QR)	400Kg/M ³ (QR)	Quality Standard
Tensile Strength	0.150 Mpa	0.150 Mpa	0.200 Mpa	0.250 Mpa	0.275 Mpa	0.350 Mpa	0.500 Mpa	0.600 Mpa	0.700 Mpa	DIN 53571
Elongation (Min)	150 %	150 %	150 %	150 %	150 %	150 %	150 %	150 %	150 %	DIN 53571
Tear Strength	1.0 Kg/cm	1.0 Kg/cm	1.0 Kg/cm	1.0 Kg/cm	1.6 Kg/cm	2.0 Kg/cm	2.5 Kg/cm	2.75 Kg/cm	3.0 Kg/cm	DIN 53515
Compression Set	10% Max	30% Max	10% Max	30% Max	10% Max	10% Max	10% Max	10% Max	10% Max	DIN 53572
Final Recovery	90-98%	90-98%	90-98%	90-98%	90-98%	90-98%	90-98%	90-98%	90-98%	DIN 53572
Water Absorption	40-60%	15-30%	40-60%	15-20%	8-10%	8-10%	8-10%	8-10%	8-10%	N/A
Compression to Form Waterseal	40%	25%	35%	25%	25%	15%	10%	10%	9%	N/A
Cold Flexure	-30° C Pass	-30° C Pass	-30° C Pass	-30° C Pass	-30° C Pass	-30° C Pass	-30° C Pass	-30° C Pass	-30° C Pass	6mm Mandrel
Fire Rating	Self-Extinguish	Self-Extinguish	Self-Extinguish	Self-Extinguish	Self-Extinguish	Self-Extinguish	Self-Extinguish	Self-Extinguish	Self-Extinguish	N/A
Temperature Resistance	-50 to +60° C	-50 to +60° C	-50 to +60° C	-50 to +60° C	-50 to +60° C	-50 to +60° C	-50 to +60° C	-50 to +60° C	-50 to +60° C	BS 2571
Shore Hardness	10 - 30	20 - 40	25 - 45	55 - 80	40 - 60	55 - 75	55 - 80	65 - 90	65 - 90	Shore 00
UV Exposure	Good	Good	Good	Good	Good	Good	Good	Good	Good	BS 2782
Resistance to Ageing	Good	Good	Good	Good	Good	Good	Good	Good	Good	N/A

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DELIVERY

All foam grades are made to order, normally with a 3-4 week delivery time depending on the current production schedule, otherwise by prior arrangement.

RESISTANCE TO CHEMICALS

Kemmetech vinyl foams have good resistance to the following chemicals; acids, mineral oil, alcohol, alkalis, petrol, soap and detergents.

ADHESIVE COATING

Kemmetech vinyl foams are manufactured to order in roll form, either unsupported or supported with doublesided release paper depending on customer requirement. We do not custom-coat or finish the materials but we would be happy to recommend suitable suppliers. We recommend that only acrylic adhesives with high resistance to plasticiser migration be used in the further processing of vinyl foams.

HANDLING AND STORAGE

Vinyl Foams should be stored in a clean, dry warehouse. The rolls should not be crushed or indented and therefore should not be stacked. If the rolls are stored in an upright position, they should be removed from their packaging and laid flat for at least one hour prior to processing.

TECHNICAL INFORMATION

The above information is accurate to the best of our knowledge and is intended as a guide to users. Since applications may vary greatly, customers are advised to test the materials under their own conditions of use to satisfy themselves as to their suitability.

SAMPLES

Upon request, we would be pleased to provide reasonable quantities of sample materials free of charge for testing purposes. Larger sample quantities may be produced where required in which case a charge may be made.

FURTHER INFORMATION

Should you require any further information or samples, please contact Kemmetech on +44 (0)1622 872724, or by email to info@kemmetech.co.uk

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