



Adhesive Backed Materials Ltd

ABM, Geith Ind Est, Crown Business Park, Tredegar, Gwent, UK. NP22 4EF
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PE Foam Single Sided Tape 33kg

Single Sided Self-Adhesive Closed Cell Polyethylene Foam Tape

General Description

A single-sided self-adhesive foam tape combining LDPE 33kg, a physically crosslinked, fine closed-cell polyolefin (polyethylene) foam produced in continuous sheets and vertically foamed with two identical process skins, with WTI-81, an acrylic based permanent adhesive on a nonwoven carrier supplied with a Havana paper release liner. The foam offers excellent thermal and impact-sound insulation, very low water absorption and water vapour permeability, good weatherability and broad chemical resistance, while the high-temperature acrylic adhesive bonds permanently to dry, damp, smooth, slightly rough and curved surfaces. Available in black or white.

Application & Use

Thermal insulation and impact-sound / acoustic insulation
Sealing, gasketing and dust/draught exclusion
Cushioning, packaging and protective padding
Die-Cut, CNC Cut & Kiss Cut components and gaskets
General industrial assembly on dry, damp and slightly rough surfaces

Technical Details

Property	Method	Unit	Typical Value
Foam Substrate — LDPE 33kg (Physically Crosslinked Closed Cell Polyethylene Foam)			
Foam Type	—	—	Physically crosslinked closed cell polyolefin (LDPE)
Cell Structure	—	—	Fine regular, closed-cell
Density (Block)	ISO 845	Kg/m ³	33 (28-38)
Tensile Strength	ISO 1798	kPa	>250
Tensile Elongation	ISO 1798	%	>170
Compressive Strength 10%	ISO 844	kPa	35-55
Compressive Strength 25%	ISO 844	kPa	55-85
Compressive Strength 50%	ISO 844	kPa	120-170
Compression Set 25% / 0.5h after discharge	ISO 1856	%	15
Compression Set 25% / 24h after discharge	ISO 1856	%	4
Thermal Conductivity at 0 °C	ISO 8301	W/mK	0.034
Thermal Conductivity at 10 °C	ISO 8301	W/mK	0.035
Thermal Conductivity at 40 °C	ISO 8301	W/mK	0.039



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Property	Method	Unit	Typical Value
Working Temperature (Internal)	—	°C	-60 / +100
Water Absorption (7 days)	DIN 53428	%	<1
Surface Resistivity	IEC 61340	Ohm	<10 ¹³
Adhesive System — WTI-81 (Acrylic, Permanent)			
Adhesive Type	—	—	Acrylic, permanent
Carrier	—	—	Nonwoven
Carrier Basis Weight	ISO 536	g/m ²	12 ± 1
Carrier Thickness	ISO 534	µm	23 ± 2
Peel Adhesion 180°	AFERA 5001	N/25mm	Min. 30
Shear	AFERA 5012	h	Min. 25
Min. Application Temperature	—	°C	0
Adhesive Service Temperature	—	°C	-10 / +120
Release Liner	—	—	Havana paper
Liner Basis Weight	ISO 536	g/m ²	80 ± 4
Liner Thickness	ISO 534	µm	65 ± 4
Adhesive Laminate Thickness (excl. foam)	ISO 534	µm	175 ± 9
Combined Product			
Construction	—	—	Single-sided: PE foam + acrylic adhesive + paper liner
Adhesive Added Thickness (excl. liner)	—	mm	≈ 0.11
Combined Service Temperature (continuous)	—	°C	-10 / +100

Key Characteristics

- ☐ Excellent thermal insulation
- ☐ Very good impact sound insulation
- ☐ Low water absorption; very low water vapour permeability
- ☐ Good weatherability and inert to a wide range of chemicals
- ☐ No odour; ecologically and chemically neutral

Availability

Colour: Available in black or white.

Foam Thickness: 2mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm, 12mm and 15mm.

Width: Supplied 1 metre (1000mm) wide as standard; can be slit to specified widths.

Shelf Life & Storage Conditions



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12 months when stored away from direct sunlight and heat, in a dark, dry place at a temperature of 20 °C
± 3 °C with a relative humidity of 50% ± 20%.

*All information and recommendations about products are based on our existing knowledge and experience but do not mean a guarantee or warranty.
As the products are used for different applications we recommend checking suitability of product prior to use. All information is subject to change
without notice. End user is obliged to verify the above information before using the material.*