



PE Foam Single Sided Tape 0.5mm

Single Sided Self-Adhesive Closed Cell Polyethylene Foam Tape

General Description

A single-sided self-adhesive foam tape combining LDPE 100kg, a 0.5mm expanded closed cell polyethylene foam, with WTI-81, an acrylic based permanent adhesive on a nonwoven carrier supplied with a Havana paper release liner. The fine, closed-cell PE foam offers excellent UV and fungi resistance, low water absorption and good cushioning and sealing in a thin, conformable profile, while the high-temperature acrylic adhesive bonds permanently to dry, damp, smooth, slightly rough and curved surfaces. Available in black or white.

Application & Use

- ☐ Thin-gap sealing, gasketing and dust/draught exclusion
- ☐ Cushioning, padding and anti-rattle / anti-scratch protection
- ☐ Glazing spacers and packing in window, door and panel assembly
- ☐ General industrial assembly on dry, damp and slightly rough surfaces

Technical Details

Property	Method	Unit	Typical Value
Foam Substrate — LDPE 100kg (Expanded Closed Cell Polyethylene Foam)			
Foam Type	—	—	Expanded closed cell polyethylene (LDPE)
Foam Density	BS 3924	Kg/m ³	100
Elongation at Break (MD)	BS 3924	%	130
Elongation at Break (CD)	BS 3924	%	125
Service Temperature (Foam)	—	°C	-40 to +90
UV Resistance	—	—	Excellent
Fungi Resistance	—	—	Excellent
Weather Resistance	—	—	Moderate
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



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Property	Method	Unit	Typical Value
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
Nominal Foam Thickness	—	mm	0.5
Adhesive Added Thickness (excl. liner)	—	mm	≈ 0.11
Nominal Total Thickness (excl. liner)	—	mm	≈ 0.61
Combined Service Temperature (continuous)	—	°C	-10 / +90

Availability

Colour: Available in black or white.

Foam Thickness: 0.5mm.

Width: Supplied 1 metre (1000mm) wide as standard; can be slit to any width from 8mm upward.

Shelf Life & Storage Conditions

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.