



EPDM-75FR Single Sided Foam Tape

Single Sided Self-Adhesive Flame-Retardant EPDM Foam Tape

General Description

A single-sided self-adhesive foam tape combining EPDM 75 FR, a flame-retardant expanded EPDM sponge rubber rated to UL94 HF-1 and FMVSS302, with WTI-81, an acrylic based permanent adhesive on a nonwoven carrier supplied with a Havana paper release liner. The closed-cell EPDM foam provides excellent sealing, gasketing, cushioning and anti-vibration performance with strong resistance to weathering, ozone and water absorption, while the high-temperature acrylic adhesive bonds permanently to dry, damp, smooth, slightly rough and curved surfaces.

Application & Use

- ☐ Flame-retardant sealing and gasketing where UL94 HF-1 or FMVSS302 flammability performance is required
- ☐ Transport, rail and automotive interiors and electrical enclosures
- ☐ Cushioning, anti-vibration and acoustic damping applications
- ☐ Weatherproofing and sealing with a resilient closed-cell foam
- ☐ Bonding to stainless steel, plexiglass and similar smooth or curved surfaces
- ☐ General industrial assembly on dry, damp and slightly rough surfaces

Technical Details

Property	Method	Unit	Typical Value
Foam Substrate — EPDM 75 FR (FR Expanded EPDM Sponge Rubber, UL94 HF-1)			
ASTM D1056-14 Classification	ASTM D1056-14	—	2A1 B3 C M
Density	ASTM D3575	Kg/m ³	75-105
Compression Deflection (25%)	ASTM D1056	kPa	30-40
Compression Deflection (50%)	ASTM D1056	kPa	65-75
Compression Set (25%/22h/23°C) - after 24h	ASTM D1056	%	15-25
Compression Set (50%/22h/23°C) - after 24h	ASTM D1056	%	35-45
Shrinkage (22h/70°C)	ASTM D573	%	7-11
Shore Hardness	—	OO	30-40
Elongation	ASTM D412	%	180-240
Temperature Range (Constant)	—	°C	-30 / +60
Temperature Range (Intermittent)	—	°C	+80
Water Absorption (Max Weight Change)	ASTM D1056	%	1-2
Tensile Strength	ASTM D412	kPa	350-450



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Property	Method	Unit	Typical Value
Flame Resistance (>3mm)	FMVSS302	—	Pass
Flame Resistance (>3mm)	UL94 HF-1	—	Pass
Environmental Protection	—	—	CFC & HCFC Free
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: EPDM foam + acrylic adhesive + paper liner
Adhesive Added Thickness (excl. liner)	—	mm	≈ 0.11
Combined Service Temperature (continuous)	—	°C	-10 / +60

Flame rating note: The UL94 HF-1 and FMVSS302 flame-resistance ratings apply to the EPDM 75 FR foam substrate only. The WTI-81 acrylic adhesive and paper release liner are not independently flame-rated, and the flammability of the complete laminated tape has not been classified. Suitability should be verified for any application requiring a specified flame rating.

Availability

Foam Thickness: 1mm, 2mm, 3mm, 4mm and 5mm. Additional thicknesses can be available on request.

Width: Supplied 1 metre (1000mm) wide as standard; can be slit to any width from 25mm 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.