



Firm Grade Neoprene Single Sided Tape

Single Sided Self-Adhesive Firm Grade Neoprene Sponge Tape

General Description

A single-sided self-adhesive foam tape combining Neoprene 735 Firm Grade, a firm-density closed-cell neoprene (CR) sponge rubber, with WTI-81, an acrylic based permanent adhesive on a nonwoven carrier supplied with a Havana paper release liner. The firm-grade neoprene provides high load-bearing and compression resistance for robust sealing and gasketing, with good resistance to weathering, ozone, water and a wide service temperature range, while the high-temperature acrylic adhesive bonds permanently to dry, damp, smooth, slightly rough and curved surfaces.

Application & Use

- ☐ Firm sealing and gasketing where higher compression resistance is required
- ☐ Enclosure, cabinet and panel gaskets
- ☐ Weather seals and environmental sealing
- ☐ Anti-vibration and cushioning of heavier components
- ☐ General industrial assembly on dry, damp and slightly rough surfaces

Technical Details

Property	Method	Unit	Typical Value
Foam Substrate — Neoprene 735 Firm Grade (Closed Cell Neoprene/CR Sponge Rubber)			
ASTM D1056-14 Classification	ASTM D1056-14	—	2C3 B2 M
Density	ASTM D3575	Kg/m ³	150-200
Compression Deflection (25%)	ASTM D1056	kPa	60-90
Compression Deflection (50%)	ASTM D1056	kPa	100-130
Compression Set (25%/22h/23°C) - after 24h	ASTM D1056	%	1-3
Compression Set (50%/22h/23°C) - after 24h	ASTM D1056	%	8-15
Shrinkage (22h/70°C)	ASTM D573	%	3-7
Shore Hardness	—	OO	50-60
Elongation	ASTM D412	%	150-200
Temperature Range (Constant)	—	°C	-40 / +80
Temperature Range (Intermittent)	—	°C	+100
Water Absorption (Max Weight Change)	ASTM D1056	%	1-2
Tensile Strength	ASTM D412	kPa	680-750
Flame Resistance (>3mm)	FMVSS302	—	Pass
Environmental Protection	—	—	CFC & HCFC Free



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Property	Method	Unit	Typical Value
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: neoprene foam + acrylic adhesive + paper liner
Adhesive Added Thickness (excl. liner)	—	mm	≈ 0.11
Combined Service Temperature (continuous)	—	°C	-10 / +80

Flame rating note: The FMVSS302 flame-resistance rating applies to the Neoprene 735 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

Colour: Black.

Foam Thickness: 1mm, 1.5mm, 2mm, 3mm, 4mm, 5mm and 6mm; other thicknesses available on request.

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

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.