



1-Side Adhesive Foam Tape

Product Line Overview & 3M Cross-Reference Guide

Carolina Custom Products converts foam into tape with pressure-sensitive adhesive on **one side only** — the foam face stays exposed for compression sealing, cushioning, or gasketing, while the adhesive face bonds to the mounting substrate. This guide leads with our PVC foam tape line, built across three density tiers with CCP's own tested specifications, then covers five additional material families — polyethylene, Poron®/microcellular polyurethane, neoprene/EPDM, open-cell polyurethane, and silicone — that CCP also converts and sources as 1-side adhesive foam tape. All are converted to custom widths, gauges, and roll lengths, and are available back-stripped (reverse-wrapped, adhesive side exposed) on request.

PVC Foam Tape — CCP Density Tiers (CCP-Verified Specs)

Product Group	Density	Best Fit For	Closest 3M Cross-Reference
CCP High-Density PVC Foam Tape	13.0–17.0 lb/ft ³	Heavy-duty gasketing, structural sealing, high-compression cushioning	3M™ Single-Coated Vinyl Foam Tape 4500 Series (4504 / 4508 / 4516) — 20–25 lb/ft ³
CCP Medium-Density PVC Foam Tape	9.0–13.0 lb/ft ³	Balanced flex & strength; clean die-cuts and fastener penetration	3M™ Single-Coated Vinyl Foam Tape 4700 Series (4714 / 4718 / 4726) — 14–20 lb/ft ³
CCP Low-Density PVC Foam Tape	5.5–10.0 lb/ft ³ (varies by gauge)	Economical general-purpose sealing, tight-radius curves, flexible gasketing, PPE use	No direct match — 3M's lightest single-coated vinyl foam (4700 Series) starts at 14 lb/ft ³ . CCP Low-Density fills the gap below 3M's standard range.

High-Density PVC Foam Tape		13.0–17.0 lb/ft³																		
CCP DESCRIPTION Industrial, closed-cell PVC foam built for maximum firmness and load-bearing support, with pressure-sensitive acrylic adhesive on one side. <table><tr><td>Colors</td><td>Gray, Black</td></tr><tr><td>Adhesion</td><td>12 oz/in min</td></tr><tr><td>Hardness</td><td>Shore 00: 50</td></tr><tr><td>Water absorption</td><td>3% max</td></tr><tr><td>Flammability</td><td>Self-extinguishing</td></tr></table> TYPICAL APPLICATIONS • Heavy-duty gasketing • Structural sealing • High-compression cushioning		Colors	Gray, Black	Adhesion	12 oz/in min	Hardness	Shore 00: 50	Water absorption	3% max	Flammability	Self-extinguishing	3M™ CROSS-REFERENCE 3M™ Single-Coated Vinyl Foam Tape 4500 Series (4504 / 4508 / 4516) <table><tr><td>Density</td><td>20–25 lb/ft³</td></tr><tr><td>Thickness</td><td>62–250 mil (1.6–6.4 mm)</td></tr><tr><td>Color</td><td>Black</td></tr><tr><td>Adhesive</td><td>Acrylic, one side</td></tr></table> 3M TYPICAL APPLICATIONS • Dust/moisture seal for appliances, electronics, transportation equipment (compressed ~30%) WHY CCP • Gray or black in the same density tier (3M offers black only) • Converted to your exact width, gauge, and roll length — no fixed catalog put-ups • Back-stripped (adhesive-side-out) rolls available on request	Density	20–25 lb/ft³	Thickness	62–250 mil (1.6–6.4 mm)	Color	Black	Adhesive	Acrylic, one side
Colors	Gray, Black																			
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Color	Black																			
Adhesive	Acrylic, one side																			

Medium-Density PVC Foam Tape		9.0–13.0 lb/ft ³
CCP DESCRIPTION Industrial, closed-cell PVC foam balancing flexibility and strength, with pressure-sensitive acrylic adhesive on one side. Permits clean die-cuts and fastener penetration.		3M™ CROSS-REFERENCE 3M™ Single-Coated Vinyl Foam Tape 4700 Series (4714 / 4718 / 4726)
Temp. range	-40°F to 172°F	Density 14–20 lb/ft ³
Adhesion	20 oz/in min (SS), typ. >30 oz/in	Thickness 62–250 mil (1.6–6.4 mm)
Hardness	Shore 00: 34	Color Black
Water absorption	2.6%	Adhesive Acrylic, one side
Flammability	Self-extinguishing	
TYPICAL APPLICATIONS - General gasketing needing both flex and strength - Die-cut parts and fastener/screw penetration - Cushioning and vibration dampening		3M TYPICAL APPLICATIONS Dust/moisture seal for appliances, electronics, transportation equipment (compressed ~30%)
		WHY CCP - Density range (9–13 lb/ft³) sits just below 3M's 4700 Series — a softer, more conformable alternative at a comparable gauge - Custom slit widths and roll lengths, made to order - Back-stripped (adhesive-side-out) rolls available on request

Low-Density PVC Foam Tape		5.5–10.0 lb/ft ³ (by gauge)
CCP DESCRIPTION Economical, closed-cell, general-purpose PVC foam (ASTM D1056 2A1) with pressure-sensitive acrylic adhesive on one side. Biocompatible and approved for PPE applications.		3M™ CROSS-REFERENCE No direct 3M single-coated vinyl match
Temp. range	-20°C to 82°C	3M's floor 4700 Series starts at 14 lb/ft ³
Adhesion	20 oz/in min (SS), typ. >30 oz/in	Gap No published 3M single-coated vinyl foam tape below ~14 lb/ft ³
Hardness	Shore 00: 25	
Water absorption	6%	
Resistance	Excellent fungi / oxidation / weather	
TYPICAL APPLICATIONS - Sealing tight-radius curves - Flexible general-purpose gasketing - PPE and biocompatible-material applications		3M TYPICAL APPLICATIONS —
		WHY CCP - Lighter, more economical, and more conformable than any 3M single-coated vinyl foam tape on the market - PPE-approved / biocompatible — a claim 3M's standard vinyl foam tape line does not carry - Custom slit widths, gauges, and roll lengths; back-stripped rolls available on request

SHARED CONSTRUCTION & HANDLING (ALL THREE TIERS)

Construction	Closed-cell PVC foam, no fabric/film backing — foam itself is the carrier
Adhesive	Pressure-sensitive acrylic, one side only (opposite face left exposed)
Roll widths	3/16" – 52", slit to size
Back stripping	Reverse-wrap (adhesive side out) available on request
Shelf life	6 months with adhesive / 2 years without, stored ≤75°F (24°C)

Additional 1-Side Adhesive Foam Tape Families

CCP also converts and sources these material families as single-side adhesive foam tape. The figures below are **industry-typical values for the material family**, not yet tied to a specific CCP-tested datasheet — confirm exact density, thickness, and adhesion with CCP engineering before quoting a spec-critical application.

Product Group	Density	Best Fit For	Closest 3M Cross-Reference
Polyethylene (PE) Foam Tape	2.0–6.0 lb/ft ³ (typ.)	Glazing & weatherproofing, general sealing/cushioning, HVAC duct sealing	3M™ Venture Tape™ Single Sided PE Foam Glazing Tape (VS7 Series) — 62–187+ mil
Poron® / Microcellular Polyurethane Foam Tape	15–30 lb/ft ³ (typ.)	EMI/dust/light gasketing in electronics; low compression-set sealing	3M™ Single-Coated Urethane Foam Tape 4100 Series (4104 / 4108 / 4116) — 12–18 lb/ft ³ (open-cell)
Neoprene / EPDM Sponge Foam Tape	4–10 lb/ft ³ (typ.)	Outdoor enclosure/HVAC gasketing, weatherstripping, exterior vibration dampening	No direct match — 3M's foam tape catalog does not publish a single-coated sponge-rubber line
Polyurethane (Open-Cell) Foam Tape	1.5–3.0 lb/ft ³ (typ.)	Filtration media backing, soft cushioning, sound/vibration dampening	3M™ Single-Coated Urethane Foam Tape 4100 Series (4104 / 4108 / 4116) — 12–18 lb/ft ³
Silicone Foam Tape	15–25 lb/ft ³ (typ.)	High-temperature appliance/oven seals, outdoor electrical enclosure gasketing	No direct match — 3M's foam tape catalog does not publish a single-coated silicone sponge line

Polyethylene (PE) Foam Tape		2.0–6.0 lb/ft ³ (typical)	
CCP DESCRIPTION Closed-cell polyethylene foam, single-coated with pressure-sensitive adhesive on one side. Lightweight, water-resistant, and economical across a wide density range.		3M™ CROSS-REFERENCE 3M™ Venture Tape™ Single Sided PE Foam Glazing Tape (VS7 Series)	
Data basis	Industry-typical — confirm w/ CCP	Thickness	62–187+ mil (1.6–4.75+ mm)
Thickness	1/32"–1" (typical)	Color	Black, Gray
Color	Black, white, gray (grade-dependent)	Adhesive	Aggressive rubber, one side
Adhesive	Acrylic or rubber-based, one side	Density	Not published by 3M
Water absorption	Closed-cell, negligible	3M TYPICAL APPLICATIONS - Window and door glazing - Adhesion to PVC and other low-surface-energy sash/frame materials and glass	
TYPICAL APPLICATIONS - Window/door glazing and weatherproofing - General-purpose sealing and cushioning - HVAC duct sealing - Packaging protection		WHY CCP - Broader density and thickness range than 3M's glazing-focused line - Converted for general sealing/cushioning use beyond glazing applications - Custom slit widths, gauges, and roll lengths	

Poron® / Microcellular Polyurethane Foam Tape

15–30 lb/ft³ (typical)

CCP DESCRIPTION

Fine, uniform closed-cell microcellular urethane foam, single-coated. Known for very low compression set and consistent long-term sealing force across soft-to-very-firm grades.

Data basis	Industry-typical — confirm w/ CCP
Thickness	0.015"–0.250" (typical)
Color	Black, blue, or gray (grade-dependent)
Adhesive	Acrylic, one side
Cell structure	Closed-cell, microcellular

TYPICAL APPLICATIONS

- EMI / dust / light gasketing in electronics
- Keypad and display cushioning
- Medical device sealing

3M™ CROSS-REFERENCE

3M™ Single-Coated Urethane Foam Tape 4100 Series (4104 / 4108 / 4116)

Density	12–18 lb/ft ³
Thickness	62–250 mil (1.6–6.4 mm)
Color	Natural-white
Cell structure	Open-cell
Adhesive	Acrylic (3M Adhesive 350), one side

3M TYPICAL APPLICATIONS

- General cushioning and bonding to wood, metal, glass, plastics
- Air-permeable sealing

WHY CCP

- Closed-cell microcellular structure (vs. 3M's open-cell foam) for better compression-set resistance
- Broader density/firmness range for critical electronics gasketing
- Custom die-cut parts and slit rolls

Neoprene / EPDM Sponge Foam Tape

4–10 lb/ft³ (typical)

CCP DESCRIPTION

Closed-cell neoprene or EPDM sponge rubber, single-coated. Neoprene offers strong oil/chemical resistance; EPDM offers superior weather, ozone, and UV resistance.

Data basis	Industry-typical — confirm w/ CCP
Thickness	1/16"–1/2" (typical)
Color	Black
Adhesive	Acrylic, one side
Temp. range	~40°F to 200°F+ (grade-dependent)

TYPICAL APPLICATIONS

- Outdoor enclosure and HVAC gasketing
- Weatherstripping
- Exterior vibration dampening

3M™ CROSS-REFERENCE

No direct 3M single-coated match

3M's catalog	Vinyl / urethane / polyethylene / acrylic (VHB) only
Gap	No published 3M single-coated sponge-rubber foam tape

3M TYPICAL APPLICATIONS

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WHY CCP

- Fills a material category outside 3M's standard foam tape catalog
- Weather-, ozone-, and chemical-resistance neoprene/EPDM are known for
- Custom slit widths and gauges

Polyurethane (Open-Cell) Foam Tape

1.5–3.0 lb/ft³ (typical)

CCP DESCRIPTION

Soft, breathable open-cell (reticulated) polyurethane foam, single-coated. Lower density and softer than Poron-type microcellular urethane, suited to filtration and soft cushioning.

Data basis	Industry-typical — confirm w/ CCP
Thickness	1/8"–2" (typical)
Color	White/natural or black
Adhesive	Acrylic, one side
Cell structure	Open-cell, reticulated

TYPICAL APPLICATIONS

- Air filtration media backing
- Soft cushioning
- Sound and vibration dampening
- Packaging

3M™ CROSS-REFERENCE

3M™ Single-Coated Urethane Foam Tape 4100 Series (4104 / 4108 / 4116)

Density	12–18 lb/ft ³
Thickness	62–250 mil (1.6–6.4 mm)
Color	Natural-white
Adhesive	Acrylic (3M Adhesive 350), one side

3M TYPICAL APPLICATIONS

- General cushioning and bonding to wood, metal, glass, plastics
- Air-permeable sealing

WHY CCP

- Softer, lower-density range for filtration/cushioning beyond 3M's firmer 12–18 lb/ft³ band
- Custom thickness up to 2"
- Slit widths and die-cut parts available

Silicone Foam Tape

15–25 lb/ft³ (typical)

CCP DESCRIPTION

Closed-cell silicone sponge, single-coated. Extreme temperature range with excellent flame, UV, ozone, and weather resistance.

Data basis	Industry-typical — confirm w/ CCP
Thickness	1/16"–1/2" (typical)
Color	Red/orange, gray, or black
Adhesive	Silicone or acrylic, one side
Temp. range	~65°F to 450°F+

TYPICAL APPLICATIONS

- High-temperature appliance and oven seals
- Outdoor electrical enclosure gasketing
- Aerospace/transportation sealing

3M™ CROSS-REFERENCE

No direct 3M single-coated match

3M's catalog	No published single-coated silicone sponge line
Gap	Extreme-temperature niche outside 3M's foam tape range

3M TYPICAL APPLICATIONS

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WHY CCP

- Extreme-temperature/high-performance niche outside 3M's standard foam tape range
- Custom slit widths and gauges
- Die-cut parts available

The physical and performance characteristics shown for the CCP PVC foam tiers are typical/average values from CCP's own product data; figures shown for the additional foam families (polyethylene, Poron®/microcellular polyurethane, neoprene/EPDM, open-cell polyurethane, and silicone) are industry-typical figures for the material family and have not yet been tied to a specific CCP-tested datasheet. None of these values are intended for use in preparing specifications; the purchaser should confirm suitability, and CCP should confirm exact specifications, before a spec-critical application. 3M product names, numbers, and specifications are published by 3M Company and are referenced here solely to help identify a comparable CCP product; this cross-reference reflects Carolina Custom Products' own comparison of publicly available data and is not an endorsement by, or affiliation with, 3M. 3M and the referenced product names are trademarks of 3M Company; PORON is a registered trademark of Rogers Corporation, referenced here for material identification only.

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