



3M™ Specialty
Tape Solutions

protect

enhance

conduct

mask

reflect

quiet & more

Meeting application challenges for
appliances, aerospace, automotive,
construction, MRO, electronics,
commercial transport, marine and more...



Wide variety of applications

3M™ Aluminum Foil Tape 425

Applications and key characteristics

- High thermal conductivity enhances heating or cooling efficiency
- High heat reflectivity and flame resistance protects temperature-sensitive materials against heat and flame damage and hot spots
- Reflect light
- Seal and protect against moisture, solvents, and dust
- Resist outdoor weathering and UV degradation for long term performance

Technical parameters

Adhesive:	Transparent pressure sensitive acrylic for long term performance
Backing:	Shiny silver, dead soft aluminum
Backing Thickness:	2.8 mils (0.07 mm)
Total Thickness:	4.6 mils (0.12 mm)
Temperature Use Range:	-65°F to 300°F (-54°C to 149°C)

3M™ Damping Foil Tape 2552

Applications and key characteristics

- Converts vibrational energy to negligible heat that readily dissipates
- Reduces structure-borne noise in metal and composite panels and support structures
- Reduces vibrational fatigue to decrease wear and tear on parts and lower the risk of part loosening and displacement
- Effectively damps with minimal coverage
- Pressure sensitive for easy application

Technical parameters

Polymer:	Pressure sensitive viscoelastic acrylic optimized for energy dissipation
Backing:	Dead soft aluminum
Backing Thickness:	10 mils (0.254 mm)
Total Thickness:	15 mils (0.381 mm)
Temperature Use Range:	-25°F to 175°F (-32°C to 80°C)

3M™ Vinyl Tape 471

Applications and key characteristics

- “Color throughout” resists scrapes, weathering, wear, and chemicals
- Easily applied color coding, markings, and identification for aisles, lanes, hazard areas, tools, and equipment
- Fine line paint masking
- Surface protection or decorative trim
- High visibility splicing

Technical parameters

Adhesive:	Transparent pressure sensitive synthetic rubber for high initial adhesion
Backing:	Conformable vinyl; locked in colors
Backing Thickness:	4.1 mils (0.10 mm)
Total Thickness:	5.2 mils (0.13 mm)
Temperature Use Range:	40°F to 170°F (4°C to 77°C)



3M™ PTFE Film Tape 5490

Applications and key characteristics

- Wrap web rollers with a slippery, low energy surface for smoother material movement
- Cover web former edges to minimize friction during folding
- Anti-stick for ready release and clean-up of hot plastic; prevent plastic film from sticking to heat bar
- Protect surfaces against heat, chemicals, and friction
- Conforms to rollers for easy application

Technical parameters

Adhesive: Pressure sensitive silicone for high temperature performance

Backing: Gray PTFE slick surface extruded film with layflat backing

Backing Thickness: 2.0 mils (0.05 mm)

Total Thickness: 3.7 mils (0.09 mm)

Temperature Use Range: -65°F to 400°F (-54°C to 204°C)

3M™ Glass Cloth Tape 361

Applications and key characteristics

- High temperature resistance for thermal spray masking
- Splice fabric and other textured surfaces when tensile strength 7x greater than typical polyester tapes is needed
- Protect surfaces against abrasion
- Protect against high temperature to pass FAA flame resistance regulations

Technical parameters

Adhesive: Pressure sensitive silicone for high temperature performance

Backing: White glass cloth

Backing Thickness: 5.4 mils (0.14 mm)

Total Thickness: 7.5 mils (0.19 mm)

Temperature Use Range: -65°F to 450°F (-54°C to 232°C)

3M™ Polyester Tape 850

Applications and key characteristics

- Thin caliper, high tensile strength of 28 lbs.in. (420 /100 mm), and 120% elongation at break for reliable butt and other splices
- Seal, protect and reinforce
- Color code or decorate with long term holding
- Long term aging with transparent clarity
- Transparent option for virtually invisible splices

Technical parameters

Adhesive: Pressure sensitive acrylic for long term holding

Backing: Transparent, red, black, white, silver, or gold polyester

Backing Thickness: 0.9 mils (0.02 mm)

Total Thickness: 1.9 mils (0.05 mm)

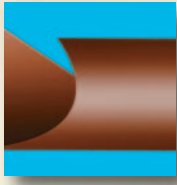
Temperature Use Range: -60°F to 300°F (-50°C to 150°C)



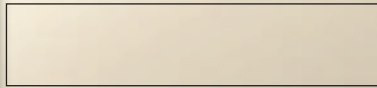
Bringing better ideas to the surface

Alternative 3M™ Aluminum Foil Tapes for specialized requirements

Thinner tape



3M™ Aluminum Foil Tape 431

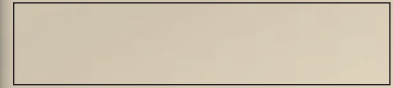


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Adhesion to silicone coated surfaces



3M™ High Temperature Aluminum Foil Tape 433*



3

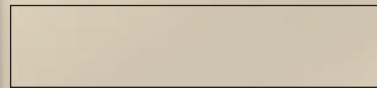
Greater pu



Thicker tape



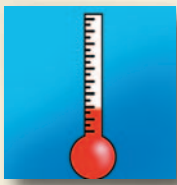
3M™ Heavy Duty Aluminum Foil Tape 438



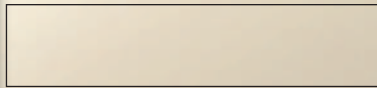
5

Alternative 3M™ Damping Tapes for specialized requirements

Lower temperature performance

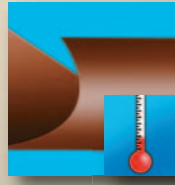


3M™ Vibration Damping Tapes 434, 435, 436



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Thinnest/lower temperature



3M™ Vibration Damping Tape 434

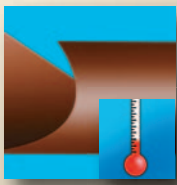


8

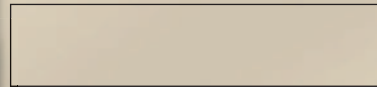
Thicker/low



Thinner/lower temperature



3M™ Vibration Damping Tape 435



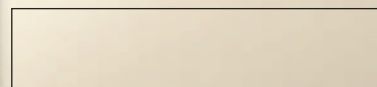
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3M™ Vinyl Tapes for specialized requirements

Greater abrasion resistance

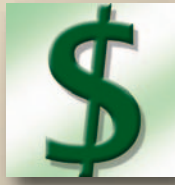


3M™ Vinyl Tape 472

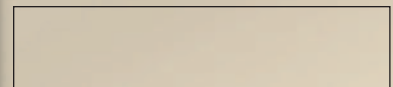


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More economical for general purpose



3M™ General Purpose Vinyl Tape 764



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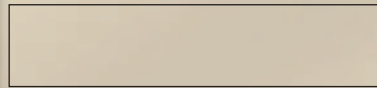
Hazard ma



Greater chemical resistance



3M™ Electroplating Tape 470

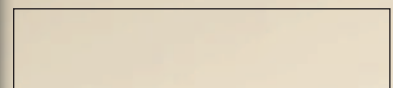


15

Lower moisture vapor transmission

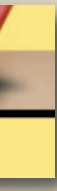


3M™ Polyethylene Film Tape 483

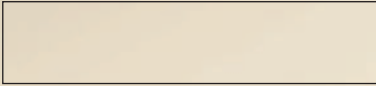


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Structure and tear resistance



3M™ High Temperature Aluminum Foil/ Glass Cloth Tape 363*

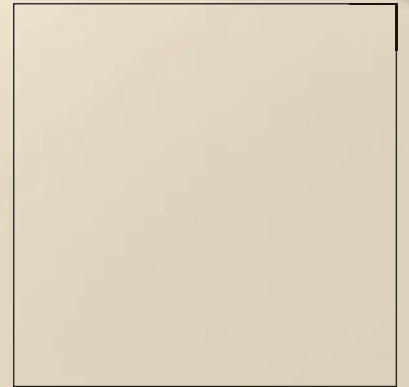


*Lined versions available



Markets

- Appliance
- Aerospace
- Automotive
- MRO (Maintenance and Repair Operations)
- Construction
- Electronics
- And more

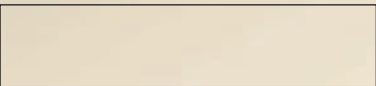


3M™ Aluminum Foil Tape 425

Over temperature

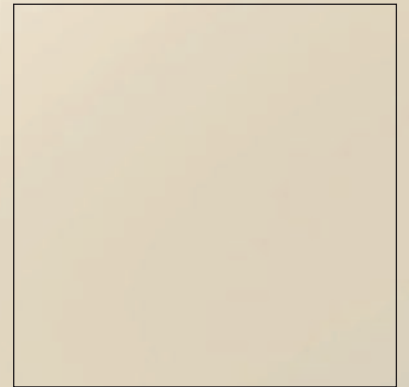


3M™ Vibration Damping Tape 436



Markets

- Appliance
- Aerospace
- Automotive
- Commercial Vehicle
- MRO (Maintenance and Repair Operations)
- Construction
- And more

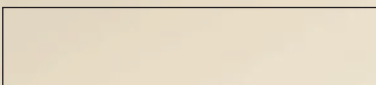


3M™ Damping Foil 2552

Marking



3M™ Safety Stripe Tape 5702



Markets

- Automotive
- MRO (Maintenance and Repair Operations)
- Construction
- Marine
- Commercial Vehicle
- And more



3M™ Vinyl Tape 471

Markets

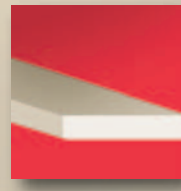
- Appliance
- Aerospace
- Automotive
- MRO (Maintenance and Repair Operations)
- Construction
- Electronics
- And more



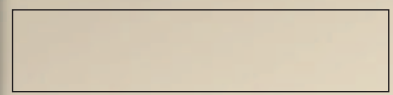
3M™ PTFE Film Tape 5490

Alternative 3M™ Film Tapes for specialized requirements

Skived backing



3M™ PTFE Film Tape 5480

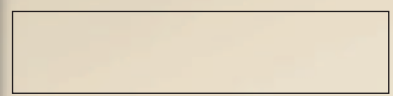


19

Silicone free

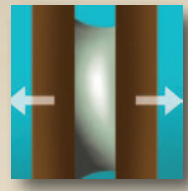


3M™ PTFE Film Tape 5498



22

Greater tensile strength



Abrasion resistance



Markets

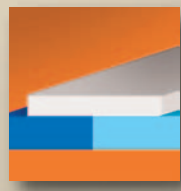
- Aerospace
- Automotive
- Commercial Vehicle
- Construction
- Marine
- And more



3M™ Glass Cloth Tape 361

Alternative 3M™ Glass Cloth Tapes for specialized requirements

Thermosetting adhesive for heavy duty splicing

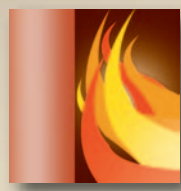


3M™ Thermosetting Glass Cloth Tape 365*

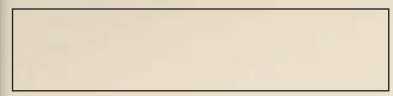


25

Thinner/lower temperature

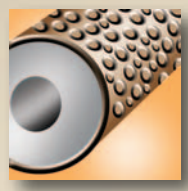


3M™ Glass Cloth Tape 398FR, 398FRP (printed)



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Higher friction



Markets

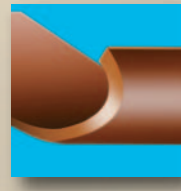
- Paper and Printing
- Automotive
- Construction
- Aerospace
- Electronics
- Metal Finishing
- And more



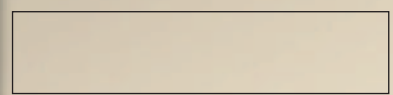
3M™ Polyester Tape 850

Alternative 3M™ Polyester Tapes for specialized requirements

Thinner tape

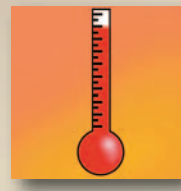


3M™ Composite Bonding Tape 8905

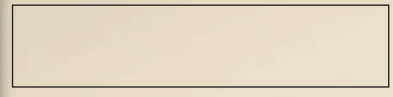


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Greater temperature resistance

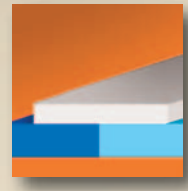


3M™ General Purpose Polyester/Silicone Tape 8992

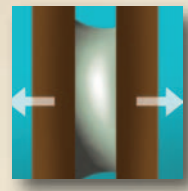


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Splicing silicone



Higher adhesion

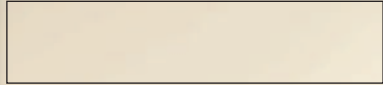


Wide variety of technical solutions

nts

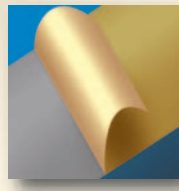
Strength or durability

3M™ PTFE Glass Cloth Tape 5451

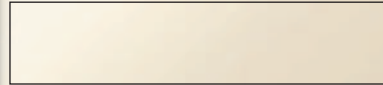


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Lined versions



3M™ Squeak Reduction Tape 9324



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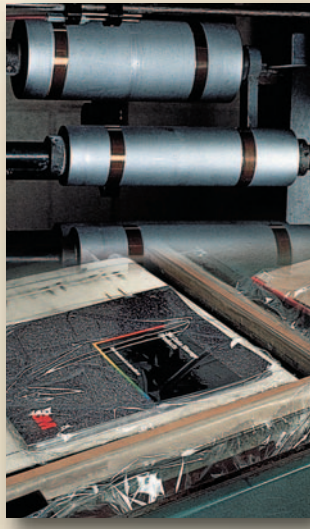
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3M™ UHMW Film Tape 5425



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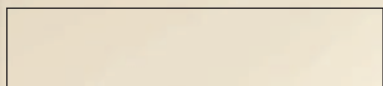
Additional thicknesses and lined versions available.



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Requirements

3M™ Traction Tape 5401



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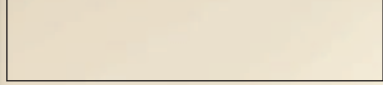
28

*Lined version available.

Requirements

Pre-coated material

3M™ Polyester Silicone Adhesive Tape 8403

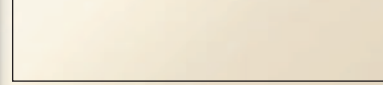


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Splice detection

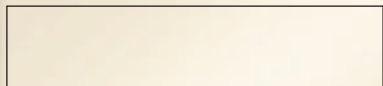


3M™ Polyester Film Tape 850



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3M™ Super Bond Film Tape 396



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Beyond Specialty 6 – more 3M solutions for many industries

3M™ Bumpon™ Protective Products

Wherever slamming, scratching, nicking, scuffing, sliding, vibration, or noise could be a problem for your product – or make your product a problem – 3M™ Bumpon™ Protective Products provide a margin of safety. You have a choice of permanently resilient pads, feet, buttons, strips, bumpers, or spacers.



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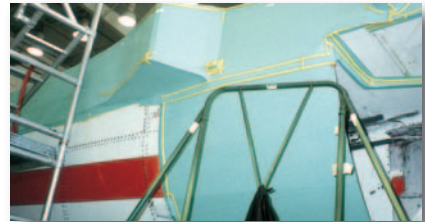
36

3M™ Sandblast Stencil Products and Impact Stripping Tapes

Combining 32-80 mil thick rubber backing with aggressive pressure sensitive adhesive, these products meet the rigors of two tough masking applications:



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3M™ Repulable Tapes



39



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From core starting to roll closing/tabbing and all the splices in-between, this totally repulable line offers choices for the dependability you need to keep production at full speed. Backings and adhesives are engineered for optimum strength on every type of splice: flying, overlap, butt, and general purpose.

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