



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)

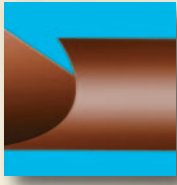
Temperature Use Range: -60°F to 300°F (-50°C to 150°C)



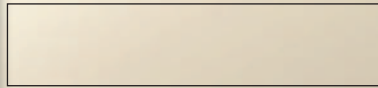
# Bringing better ideas to the surface

## Alternative 3M™ Aluminum Foil Tapes for specialized requirements

### Thinner tape



3M™ Aluminum Foil Tape 431

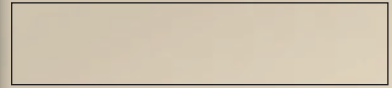


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### Adhesion to silicone coated surfaces

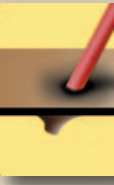


3M™ High Temperature Aluminum Foil Tape 433\*



3

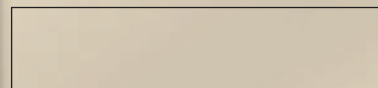
### Greater pu



### Thicker tape



3M™ Heavy Duty Aluminum Foil Tape 438



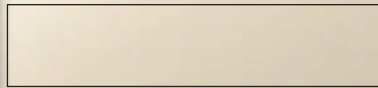
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## Alternative 3M™ Damping Tapes for specialized requirements

### Lower temperature performance

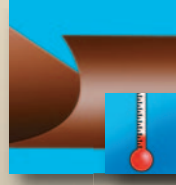


3M™ Vibration Damping Tapes 434, 435, 436

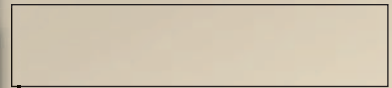


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### Thinnest/lower temperature



3M™ Vibration Damping Tape 434

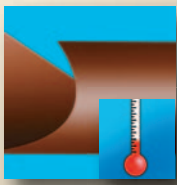


8

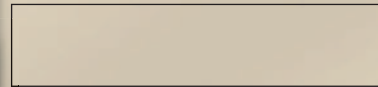
### Thicker/low



### Thinner/lower temperature



3M™ Vibration Damping Tape 435



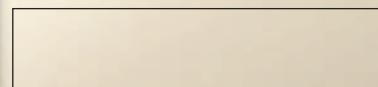
10

## 3M™ Vinyl Tapes for specialized requirements

### Greater abrasion resistance



3M™ Vinyl Tape 472

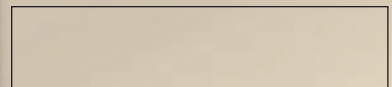


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### More economical for general purpose



3M™ General Purpose Vinyl Tape 764



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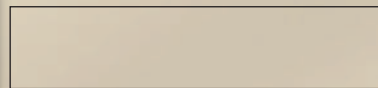
### Hazard ma



### Greater chemical resistance



3M™ Electroplating Tape 470

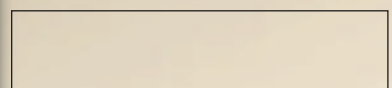


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### Lower moisture vapor transmission



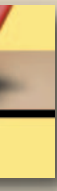
3M™ Polyethylene Film Tape 483



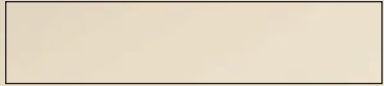
16



**Structure and tear resistance**



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



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**Markets**

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



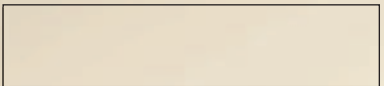
3M™ Aluminum Foil Tape 425

\*Lined versions available

**Over temperature**



3M™ Vibration Damping Tape 436



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**Markets**

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

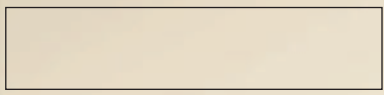


3M™ Damping Foil 2552

**Marking**



3M™ Safety Stripe Tape 5702



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**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



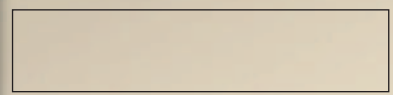
3M™ PTFE Film Tape 5490

### Alternative 3M™ Film Tapes for specialized requirements

#### Skived backing



3M™ PTFE Film Tape 5480

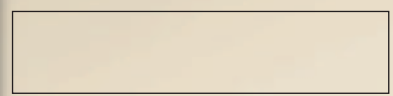


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#### Silicone free

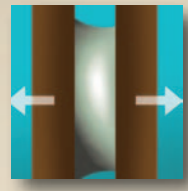


3M™ PTFE Film Tape 5498



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#### Greater tensile strength

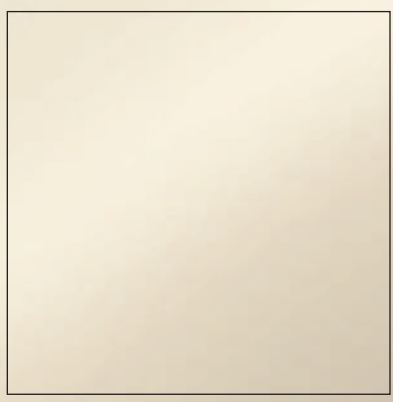


#### Abrasion resistance



### Markets

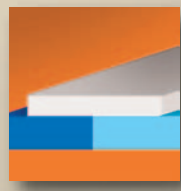
- Aerospace
- Automotive
- Commercial Vehicle
- Construction
- Marine
- And more



3M™ Glass Cloth Tape 361

### Alternative 3M™ Glass Cloth Tapes for specialized requirements

#### Thermosetting adhesive for heavy duty splicing

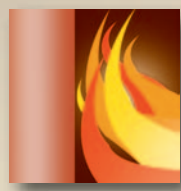


3M™ Thermosetting Glass Cloth Tape 365\*

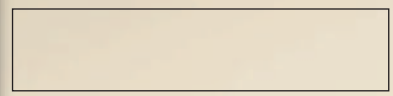


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#### Thinner/lower temperature

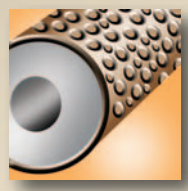


3M™ Glass Cloth Tape 398FR, 398FRP (printed)



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#### Higher friction



### Markets

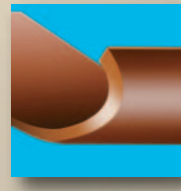
- Paper and Printing
- Automotive
- Construction
- Aerospace
- Electronics
- Metal Finishing
- And more



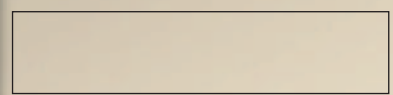
3M™ Polyester Tape 850

### Alternative 3M™ Polyester Tapes for specialized requirements

#### Thinner tape

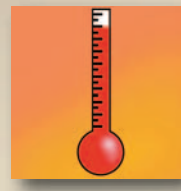


3M™ Composite Bonding Tape 8905

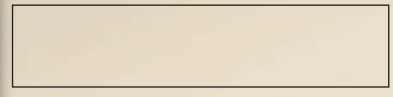


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#### Greater temperature resistance

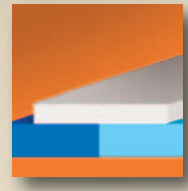


3M™ General Purpose Polyester/Silicone Tape 8992

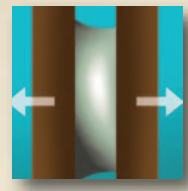


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#### Splicing silicone



#### Higher adhesion

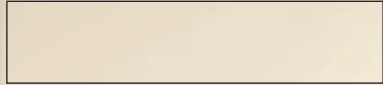


# Wide variety of technical solutions

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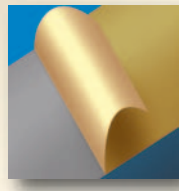
## Strength or durability

3M™ PTFE Glass Cloth Tape 5451

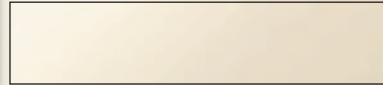


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## Lined versions



3M™ Squeak Reduction Tape 9324



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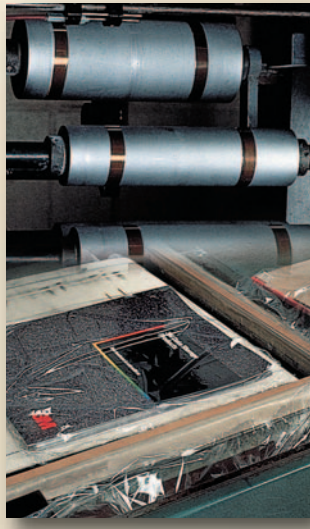
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3M™ UHMW Film Tape 5425



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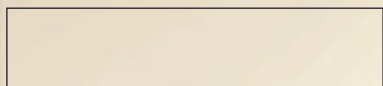
Additional thicknesses and lined versions available.



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## Requirements

3M™ Traction Tape 5401



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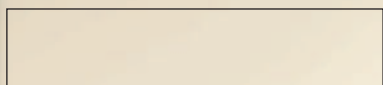
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\*Lined version available.

## Requirements

### Pre-coated material

3M™ Polyester Silicone Adhesive Tape 8403

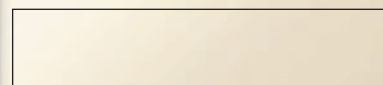


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### Splice detection

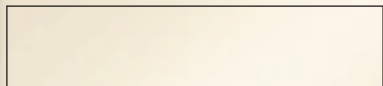


3M™ Polyester Film Tape 850



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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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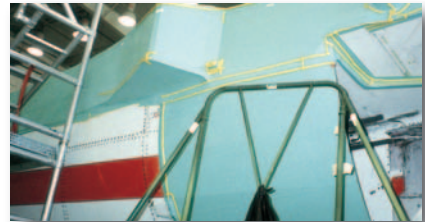
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## 3M™ Sandblast Stencil Products and Impact Stripping Tapes

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™ Repulpable Tapes



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From core starting to roll closing/tabbing and all the splices in-between, this totally repulpable 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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