



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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)

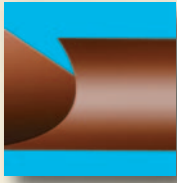
Temperature Use Range: -60°F to 300°F (-50°C to 150°C)



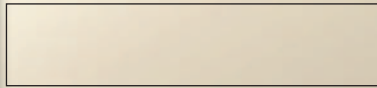
# Bringing better ideas to the surface

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

### Thinner tape



3M™ Aluminum Foil Tape 431

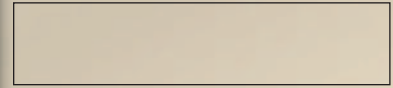


2

### Adhesion to silicone coated surfaces



3M™ High Temperature Aluminum Foil Tape 433\*



3

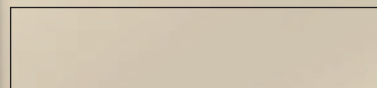
### Greater pu



### Thicker tape



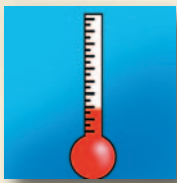
3M™ Heavy Duty Aluminum Foil Tape 438



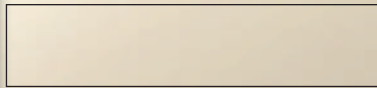
5

## Alternative 3M™ Damping Tapes for specialized requirements

### Lower temperature performance

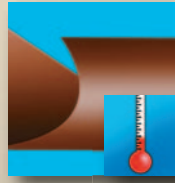


3M™ Vibration Damping Tapes 434, 435, 436

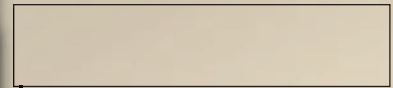


7

### Thinnest/lower temperature



3M™ Vibration Damping Tape 434

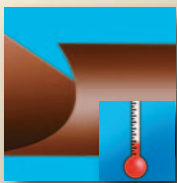


8

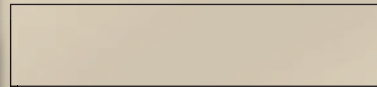
### Thicker/low



### Thinner/lower temperature



3M™ Vibration Damping Tape 435



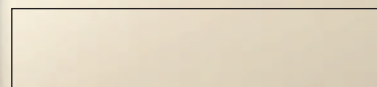
10

## 3M™ Vinyl Tapes for specialized requirements

### Greater abrasion resistance



3M™ Vinyl Tape 472

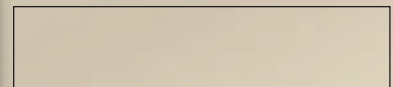


12

### More economical for general purpose



3M™ General Purpose Vinyl Tape 764



13

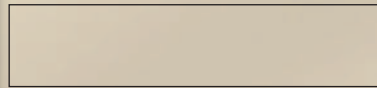
### Hazard ma



### Greater chemical resistance



3M™ Electroplating Tape 470

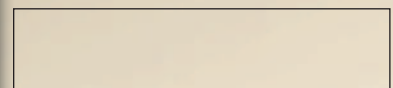


15

### Lower moisture vapor transmission

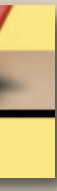


3M™ Polyethylene Film Tape 483

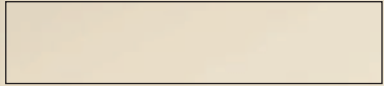


16

**Structure and tear resistance**



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



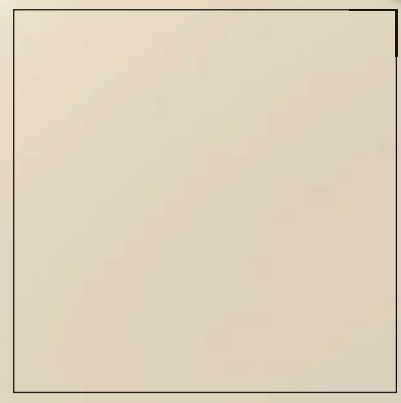
4



6

**Markets**

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



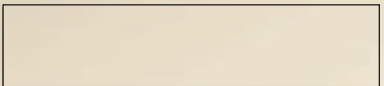
3M™ Aluminum Foil Tape 425

\*Lined versions available

**Over temperature**



3M™ Vibration Damping Tape 436



9



11

**Markets**

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

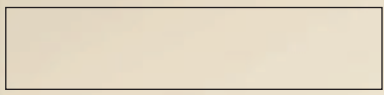


3M™ Damping Foil 2552

**Marking**



3M™ Safety Stripe Tape 5702



14



17

**Markets**

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



3M™ Vinyl Tape 471

### Markets

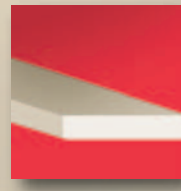
- Appliance
- Aerospace
- Automotive
- MRO  
(Maintenance and Repair Operations)
- Construction
- Electronics
- And more



3M™ PTFE Film Tape 5490

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

#### Skived backing

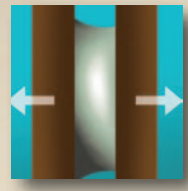


3M™ PTFE Film Tape 5480



19

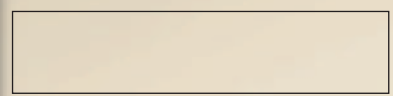
#### Greater tensile strength



#### Silicone free



3M™ PTFE Film Tape 5498



22

#### Abrasion resistance



### Markets

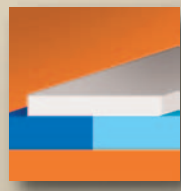
- Aerospace
- Automotive
- Commercial Vehicle
- Construction
- Marine
- And more



3M™ Glass Cloth Tape 361

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

#### Thermosetting adhesive for heavy duty splicing

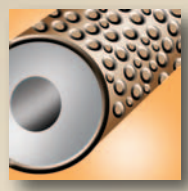


3M™ Thermosetting Glass Cloth Tape 365\*

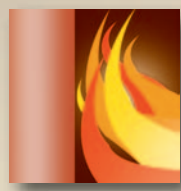


25

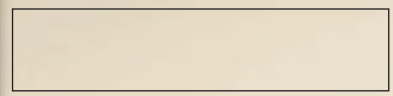
#### Higher friction



#### Thinner/lower temperature



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



27

### Markets

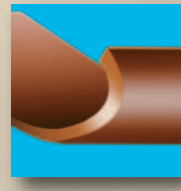
- Paper and Printing
- Automotive
- Construction
- Aerospace
- Electronics
- Metal Finishing
- And more



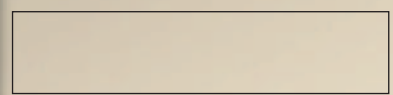
3M™ Polyester Tape 850

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

#### Thinner tape

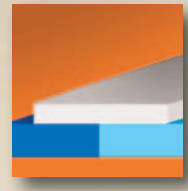


3M™ Composite Bonding Tape 8905

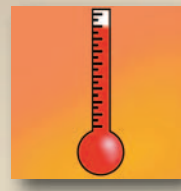


29

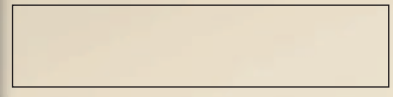
#### Splicing silicone



#### Greater temperature resistance

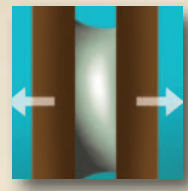


3M™ General Purpose Polyester/Silicone Tape 8992



32

#### Higher adhesion



# Wide variety of technical solutions

nts

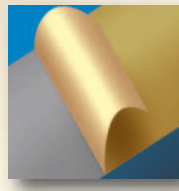
## Strength or durability

3M™ PTFE Glass Cloth Tape 5451

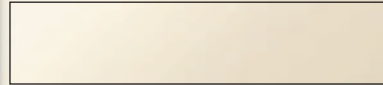


20

## Lined versions



3M™ Squeak Reduction Tape 9324



21

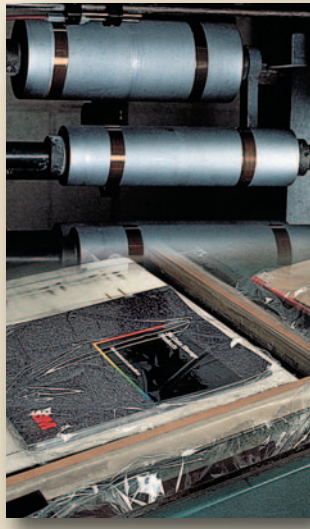
ce

3M™ UHMW Film Tape 5425



23

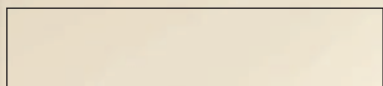
Additional thicknesses and lined versions available.



24

## Requirements

3M™ Traction Tape 5401



26



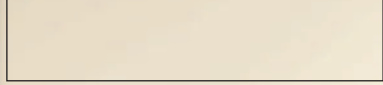
28

\*Lined version available.

## Requirements

### Pre-coated material

3M™ Polyester Silicone Adhesive Tape 8403

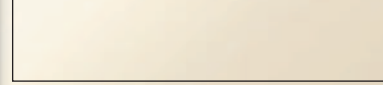


30

### Splice detection

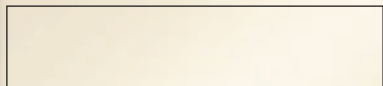


3M™ Polyester Film Tape 850



31

3M™ Super Bond Film Tape 396



33



34



# 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.



35



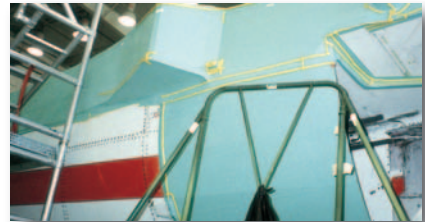
36

## 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:



37



38

## 3M™ Repulpable Tapes



39



40

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.

**PRODUCT USE:** All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application. **WARRANTY AND LIMITED REMEDY:** Unless stated otherwise in 3M's product literature, packaging inserts or product packaging for individual products, 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. **3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE.** User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If the 3M product is defective within the warranty period, your exclusive remedy and 3M's and seller's sole obligation will be, at 3M's option, to repair or replace the product or refund the purchase price. **LIMITATION OF LIABILITY:** Except where prohibited by law, 3M and seller will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



### Industrial Adhesives and Tapes Division

Bldg. 21-1W-10  
900 Bush Ave.  
St. Paul, MN 55106  
1-800-362-3550  
[www.3M.com/specialtytapes](http://www.3M.com/specialtytapes)

Printed in U.S.A.  
3M is a trademark of 3M Company.

© 3M 2008

70-0709-5364-4