

Seven products that solve 80% of customer applications



1 3M™ Metal Foil Tapes

Key product - 3M™ Aluminium Foil Tape 425

- Excellent conformability, chemical resistance and heat reflection
- Available in thinner, thicker and reinforced varieties

2 3M™ Glass Cloth Tapes

Key product - 3M™ Glass Cloth Tape 361

- Incredible tensile strength, meets FAA regulations and protects from abrasion
- Available with a variety of adhesives and operates up to 260°C

3 3M™ Polyester Tapes

Key product - 3M™ Polyester Tape 8901

- Suitable for splicing, powder coat or as a flashbreaker among other applications
- Silicone, acrylic or rubber adhesives to suit various applications

4 3M™ Slick Surface Tapes

Key product - 3M™ Polyethylene Tape 5421

- Ideal for tough impact wear or applications with sliding parts
- High energy absorption capacity reduces noise levels in machinery and equipment

5 3M™ Vinyl and Polyethylene Tapes

Key product - 3M™ Vinyl Tape 471

- Conforms, removes cleanly and is coloured throughout its construction for longevity
- Available in 9 vivid colours or transparent

6 3M™ Sound Damping Tapes

Key product - 3M™ Sound Damping Tape 2552

- Reduces noise and vibration with as little as 10% coverage
- Available in lower operating temperature varieties

7 3M™ Sandblast Stencil Products and Impact Stripping Tapes

Key product - 3M™ Sandblast Stencil 1532S or 1532T

- Helps protect granite, marble and wood during the sandblasting process
- Available in slotted variety; suitable for most automated computer plotter/cutters

3M™ Metal Foil Tapes

Meets demanding applications in Aerospace, Appliance, Transportation, Construction, Automotive and MRO markets. Available with a choice of conformable backings and adhesives, these tapes can be die-cut into bespoke shapes.

3M™ Aluminium Foil Tapes

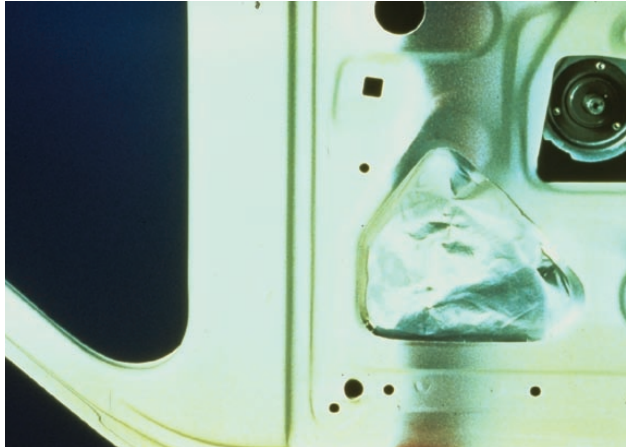
- Resist flame, moisture, weather, UV degradation and most chemicals
- Thermally conductive for heating/cooling efficiency
- Heat and light reflective to protect temperature sensitive materials
- Includes 425

3M™ Aluminium Foil Reinforced Tapes

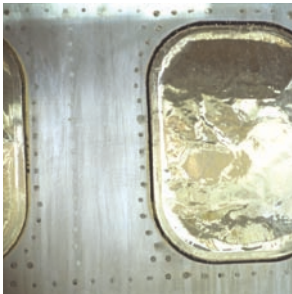
- Suitable for continual use as high as 316°C
- Great heat reflective, protective wrap for cables or components
- Puncture and tear resistant
- Includes 363

3M™ Lead Foil Tapes

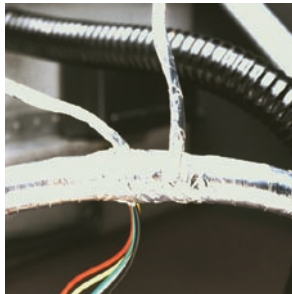
- Electrically and thermally conductive
- Suitable for electroplating, x-ray plate masking and radiation barrier
- Add weight to equipment parts (such as golf clubs)
- Includes 420



Applied over holes and cavities in the interior of a car or truck door panel, 3M™ Aluminium Foil Tape not only seals out moisture and dust but also protects from weather corrosion.



With conformability and chemical resistance, 3M™ Aluminium Foil Tapes protect aircraft windows during harsh chemical paint stripping.



Tear resistant 3M™ Reinforced Aluminium Foil Tape 363 bundles wire harnesses and helps protect wires, cables and flexible parts from heat.



With high heat reflectivity and thermal conductivity, heat sensitive components near lights can be protected.

3M™ Metal Foil Tapes

3M™ Aluminium Foil Tape 425



The nature of aluminium foil tape makes it highly conformable around awkward angles

3M™ Reinforced Aluminium Foil Tape 363

Product	Conformability	Electroplating	Easy Release Liner*	Glass Cloth	Adhesive	Chemical Resistance	Max Temp
425	**	✗	✗	✗	Acrylic	**	150°C
427	**	✗	✓	✗	Acrylic	**	150°C
431	***	✗	✗	✗	Acrylic	**	150°C
363	*	✗	✗	✓	Silicone	***	316°C
420	**	✓	✗	✗	Rubber	***	105°C
1436	**	✗	✓	✗	Rubber	*	70°C

*Makes product easier to apply as adhesive side can be unpeeled gradually

3M™ Glass Cloth Tapes

With a choice of high tensile strength glass cloth and silicone, acrylic, or rubber adhesives, this line meets demanding applications across Aerospace, Automotive, Commercial Vehicle, Construction, Marine and General Industrial Markets.

Depending on the specific tape, there are a variety of characteristics available.

- Pass FAA flame resistance regulations
- Tensile strength 7x higher than typical polyester tape
- Temperature resistance up to more than 260°C – even higher with intermittent exposures
- Thermosetable

This product is ideal for the following applications;

- Thermal spray masking
- Spicing fabric or textured surfaces
- Very high temperature shielding
- Strong protection from abrasion



3M™ Glass Cloth Tape 361 or 362 are ideal for thermal spray and plasma spray masking performing up to 260°C. Passes FAA flame resistance regulations.



3M™ Traction Tape 5401 enhances friction on web rollers to maintain constant traction and tension from start up through wind - up.



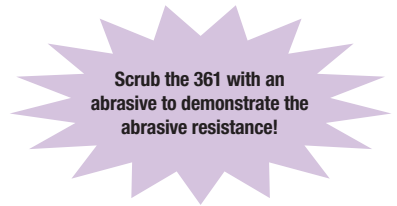
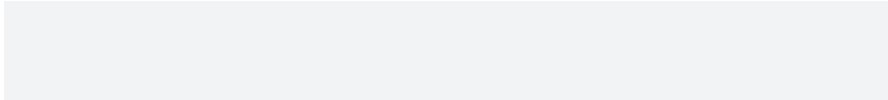
With high tensile strength and rubber adhesive, 3M™ Glass Cloth Tape 365 reliably splices fabrics.



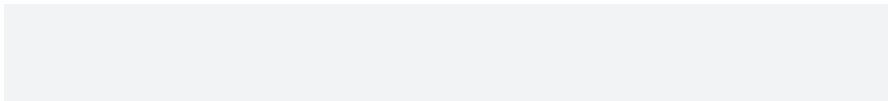
3M™ Glass Cloth Tape 398FR exceeds flame retardant standards F.A.R. 25.853 (a) and F.A.R.. 25.855 (d) which makes it ideal for use in aircraft cargo bays. Pressure sensitive acrylic adhesive bonds on contact to many surfaces, whilst the rugged cloth surface resists wear from heavy bags and friction.

3M™ Glass Cloth Tapes

3M™ Glass Cloth Tape 361



3M™ Glass Cloth Tape 398FR



Product	Thermosettable	Abrasive Resistance	Flame Retardant	Adhesive	Max Temp.
361	✗	***	✗	Silicone	232°C
3615	✗	**	✗	Silicone	232°C
362	✗	**	✗	Silicone	260°C
398FR	✗	***	✓	Acrylic	120°C
365	✓	*	✗	Rubber	150°C

3M™ Polyester Tapes

With a choice of thin backing callipers and adhesives, this line of tapes meets demanding applications for Graphic Arts, Metal Finishing and Electronics. Applications range from low profile decorative trim to splicing silicone-treated paper or powder coat masking.

What makes these tapes special?

Backing callipers from as thin as 0.9mil up to 5 mils, all with very high dimensional strength.

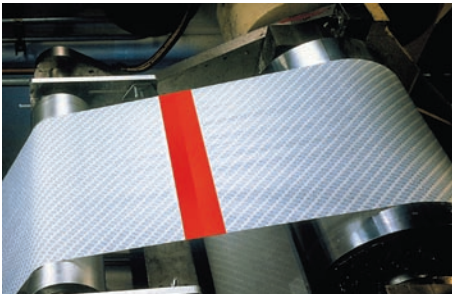
Tensile strengths ranging from 20lbs./in. (0.9mil) to 150 lbs./in. (5 mils) – some of the strongest backings available.

Pressure sensitive acrylic, rubber, silicone, and S/R blend adhesives to meet specific requirements.

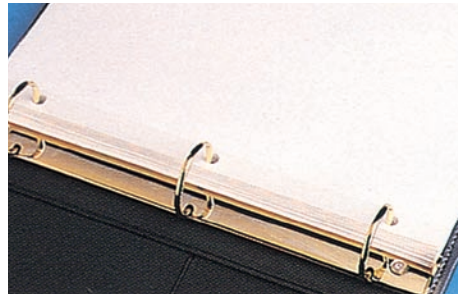
- Acrylic with transparent backing for clarity and long-term holding
- Silicone for high temperatures and clean removal
- Rubber for plating chemical resistance



For powder coat paint masking, 3M™ Polyester Tape series 8900 provides popular choices with clean removing high temperatures silicone adhesives and different backing thicknesses of tough non-slivering polyester.



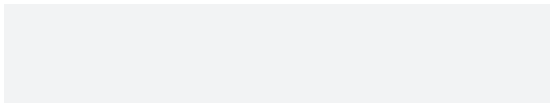
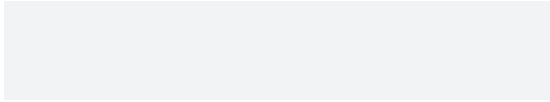
For marking splice location, 3M™ Polyester Tape 850 is available in various colours including transparent. Pressure sensitive acrylic adhesive grabs on contact and holds butt splice securely. High tensile strength backing resists web handling process.



With thin calliper and tear resistance, 3M™ Polyester Tape provides tough low-profile reinforcement for punch holes in card stock. Acrylic adhesive resists yellowing in long-term use.

3M™ Polyester Tapes

3M™ Polyester Tape 8901



Product	Adhesion Strength	Electroplating	Splicing	Powder Coating	Flash Breaker	Adhesive	Max Temp
853	**	✓	✓	✗	✗	Acrylic	175°C
855*	***	✗	✗	✓	✓	Rubber	200°C
8901	***	✗	✗	✓	✓	Silicone	177°C
396	***	✗	✓	✗	✗	Rubber-Resin	50°C
8421	**	✗	✓	✗	✗	Rubber	65°C
8402	*	✗	✗	✓	✓	Silicone	177°C

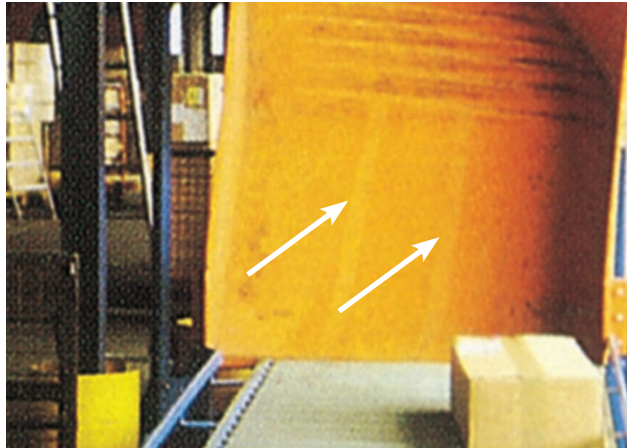
*Please note: This product is nylon not polyester

3M™ Slick Surface Tapes

3M™ Slick Surface Tapes have a low coefficients of friction with choice of other characteristics to meet many application requirements in Printing, Aerospace, Automotive, Manufacturing Processes and MRO (Maintenance, Repair and Operations).

3M™ PTFE Tapes

- Self lubricating with low coefficient of friction to help improve web processing
- Resists up to 204°C for long performance on heat sealing machines
- Anti-slick for easy clean up of hot plastic
- Chemical resistant barrier
- Silicone free adhesive available



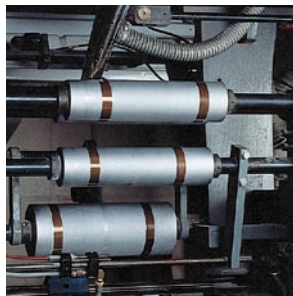
Corrugated boxes slide more easily down a chute lined with abrasion-resistant 3M™ UHMW-PE Tapes.

3M™ UHMW-PE Tapes

- Abrasion resistant to protect chutes, guide rails, and containers from wear
- Low coefficient of friction for 'slip plane' effect between surfaces to reduce noise
- Anti-stick for ready release of many inks and adhesives



For automotive noise reduction, 3M™ UHMW-PE Tape 5425 provides a 'slip plane' effect between incompatible surfaces to help reduce 'squeak and rattle'.



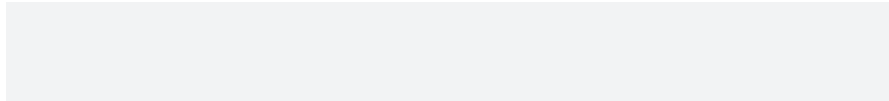
Conformable, self lubricating 3M™ PTFE Tape 5480 helps the movement of web materials in many types of roller wrapping applications.



In shrink wrapping operation, 3M™ PTFE Glass Cloth Tape 5451 helps protect the bar underneath where the hot wire seals the plastic film.

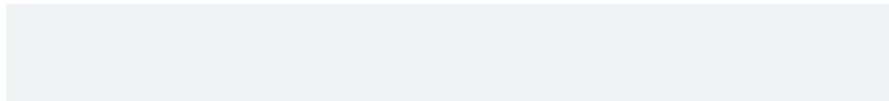
3M™ Slick Surface Tapes

3M™ UHMW Film Tape 5421



Try rubbing a coin firmly against a table surface – It's much quieter against the UHMW Film Tape 5421!

3M™ General Purpose PTFE Film Tape 5451



Product	Adhesive	Properties	Max Temp	Applications
5421	Rubber	UHMW-PE Film	104°C	General purpose friction reduction
5423	Rubber	UHMW-PE Film	104°C	As 5421 but tougher abrasive resistance
5425	Acrylic	UHMW-PE Film	104°C	As 5421 but solvent resistant adhesive
5480	Silicone	PTFE-Skived Film	204°C	Wrapping rollers
5490	Silicone	PTFE-Extruded Film	204°C	As 5480 but lays flatter and resists curling
5451	Silicone	PTFE-Glass Cloth	204°C	Covering and protecting machinery or parts

3M™ Vinyl and Polyethylene Tapes

Available in a wide variety of colours, including transparent, these rugged tapes adhere aggressively and remove cleanly from most surfaces for a wide variety of applications including identification, colour coding, differentiation, sealing and fine line painting.

Features include

- “Colour throughout” construction
- Resists scrapes, wear and weathering
- Chemical resistance
- Stretches around contours
- Clean removal



3M™ Vinyl Tapes clearly mark lanes, corridors and hazardous areas. Durable vinyl backing resists abrasion, scuffing, moisture, weathering and chemicals for long service.



For colour coding pipes with 3M™ Vinyl Tapes, select from nine vivid colours or transparent to let underlying colour show through.



For fine line paint masking, 3M™ Vinyl Tape 471 provides sharp paint lines and the clean removal of a firm rubber adhesive.



To highlight low hanging objects, protruding equipment, or steps, 3M™ Vinyl Tape 766i combines yellow and black for a striped combination that calls for attention.



3M™ Vinyl Tape 471 conforms to seal riveted seams. The flexible backing shapes itself to the bumps and edges, and the rubber adhesive holds securely to the metal.

3M™ Vinyl and Polyethylene Tapes

3M™ Aluminium Foil Tape 425



Use this area to test the
Conformability and colours
of Vinyl Tape 471



Product	Backing	Adhesive	Conformability	Colours
764i	Polyvinyl Chloride	Rubber	*	Yellow, White, Red, Black, Brown, Green, Orange, Purple, Blue, Grey and Transparent
766i	Polyvinyl Chloride	Rubber	*	Black and Yellow Stripes
767i	Polyvinyl Chloride	Rubber	*	Red and White Stripes
471	Vinyl	Rubber	**	Yellow, White, Red, Black, Brown, Green, Orange, Purple, Blue and Transparent
472	Vinyl	Pigmented Rubber	***	Black

3M™ Sound Damping Foils

Pressure sensitive viscoelastic acrylic polymer on dead soft aluminium foil will quiet and reduce vibration in Transportation, Appliances, Manufacturing Equipment and General Industrial applications to improve customer experience, perceived product quality and improve health and safety from exposure to loud noise.

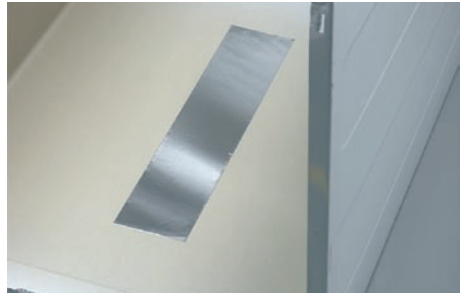
- Reduce structure-borne noise in metal and composite panels and support structures
- Effective damping with as little as 10% surface coverage
- Pressure sensitive for easy self fixing application
- Long ageing performance
- Good performance over a wide temperature range
- Lined construction provides ability to die-cut product



Applied with a 3M™ PA-1 Wiper to the inside of a car door, 3M™ Damping Foil 2552 effectively damps by converting vibration energy to negligible heat that readily dissipates.



3M™ Damping Foil 435 between the ribs and stringers of an aircraft fuselage helps reduce vibrational fatigue and noise inside the passenger cabin.



3M™ Damping Foil 2552 on the inside of a washing machine reduces the risk of part loosening and displacement.

3M™ Sound Damping Foils



**Drop each steel plate
onto a hard floor
and compare the noise!**

Product	Thickness	Temperature Range	Solvent Resistance	Easy Release Liner
2552	0.38mm	0° to 60°C	*	✓
434*	0.19mm	-60° to 120°C	**	✓
435*	0.34mm	-60° to 120°C	**	✓
436*	0.45mm	-60° to 120°C	**	✓

*Meets F.A.R. 25.853

3M™ Sandblast Stencil Products Tapes

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

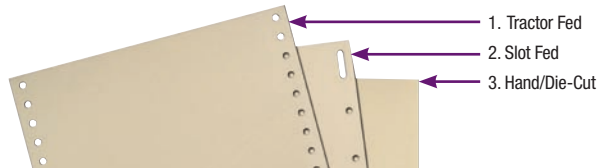
3M™ Sandblast Stencil Products

- Uniform backing thickness helps ensure efficient plotter cutting
- Clean, visible cut marks reduce picking and weeding time
- Adhesive adheres to numerous surfaces and removes cleanly
- Advanced rubber backing formulation prevents stretching and design distortion



3M™ Impact Stripping Tapes

- Choice of 32 or 80 mil rubber backing for surface protection during media stripping processes



Single liners maintain design integrity with either computer or stencil press equipment. Double liners provide support for 'islands' eliminating the need for application tape.



For blasting wood and foam signs, the balanced adhesive system of 3M™ Sandblast Stencil Tapes removes cleanly without staining or residue.



Abrasion resistant rubber backing and acrylic adhesive of 3M™ Impact Stripping Tapes protect surfaces during plastic media blasting.

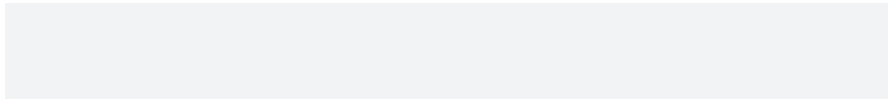
3M™ Sandblast Stencil Tapes



DOUBLE LINER	Gerber Compatible (Slot Feed)	IBM Compatible (Tractor Feed)	Friction Feed ¹ and Hand-Cut	Rubber Colour	Liner Material & Thickness (mils)	Total Thickness (mils)	Comments
519Y			■	Tan	Polyester 1.5 Polypropylene 2.0	45	<ul style="list-style-type: none"> • Yellow, translucent polyester inner liner • White, polypropylene outer liner
519YS	■						
519YT		■					
SINGLE LINER							
520			■	Tan	Polyester 2.0	45	<ul style="list-style-type: none"> • Translucent, easy liner release • High adhesion • ETL extra thick version available
520S	■			Tan	Polyester 2.0	45	<ul style="list-style-type: none"> • Translucent, high liner release • High adhesion
520T		■					
1532			■	Green	Polyester 2.0	37	<ul style="list-style-type: none"> • Extra thick, translucent, high liner release • Highest adhesion for single liner products
1532S	■						
1532T		■					

¹Rubber is trimmed back to expose the release liner to allow only the liner to run through the plotter feed system.

3M™ Sandblast Stencil Tape 1532S



Product Selection Guide



Key Product Solutions

Splicing

Reliably hold a seam together between two materials.

3M™ Polyester Tape 850

3M™ Glass Cloth Tape 361

3M™ Vinyl Tape 471

Sealing

Reliably seal surfaces in many special or unique applications.

3M™ Polyester Tape 850

3M™ PTFE Film Tape 5480

3M™ Aluminum Foil Tape 425

3M™ Vinyl Tape 471

Enhancing

Mark for color-coding, safety, or aesthetics to enhance the workplace.

3M™ Polyester Tape 850

3M™ Vinyl Tape 471

Shielding

Shield sensitive surfaces from harsh chemicals, and heat or cold.

3M™ Aluminum Foil Tape 425

3M™ Glass Cloth Tape 361

3M™ UHMW Film Tape 5425

Conducting

Effectively conduct heat or cold from one surface to another.

3M™ Aluminum Foil Tape 425

Reducing Noise

Minimise the noise of vibration or surfaces hitting or rubbing against each other.

3M™ Damping Foil 2552

3M™ UHMW Film Tape 5421



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