

A man with a beard and short dark hair, wearing a white lab coat, clear safety glasses, and blue nitrile gloves, is focused on examining a sample of industrial tape. He is surrounded by numerous hanging samples of various tape types, including grey and black tapes with yellow and blue accents. The background is a bright, clean laboratory setting.

3M Science.
Applied to Life.™

Engineered Industrial Tapes Product Catalogue

Table of Contents

Resist Chemicals

3M™ Aluminium Foil Tape 425.....	4
3M™ Electroplating Tape 470.....	4
3M™ Glass Cloth Tape 361.....	4

Withstand Temperatures

3M™ Vinyl Tape 471+	5
3M™ Polyester Tape 8992	5
3M™ High Temperature Aluminium Foil/Glass Cloth Tape 363	5

Secure Anything

3M™ Polyester Tape 850	6
Scotch® Strapping Tape 8898	6
Scotch® Filament Tape 890MSR	6
3M™ Heavy Duty Duct Tape 3939.....	6

Reduce Noise

3M™ UHMW Film Tape 5423	7
3M™ Conformable Sound Management Film Tape 9343	7
3M™ Damping Foil 2552	7

Regulate Friction

3M™ UHMW PE Film Tape 5421	8
3M™ Traction Tape 5401	8
3M™ Conformable Sound Management Film Tape 9343.....	8

Take on Weather

3M™ Vinyl Tape 471 Black	9
3M™ Preservation Sealing Tape 481	9
3M™ Aluminium Foil Tape 425.....	9
3M™ Performance Plus Duct Tape 8979.....	9

Paint with Precision

Scotch® High Temperature Fine Line Tape 4737T.....	10
Scotch® Masking Tape 2800	10
3M™ High Temperature Industrial Masking Tape 501E.....	10
Scotch® Performance Masking Tape 244.....	10

Product Catalogue

Scotch® and Tartan™ High Strength Filament Tapes.....	11
Scotch® Tensitized Polypropylene Tapes.....	12
Scotch® Stretchable Tapes.....	12
3M™ Application Specific Tapes	13
3M™ Glass Cloth Tapes.....	14
3M™ Metal Foil Tapes.....	14–15
3M™ Sound Damping Foils	16
3M™ Polyester Tapes.....	16–17
3M™ Polyethylene Tapes	17
3M™ UHMW-PE Tapes.....	18
3M™ Preservation Tapes	18
3M™ Gripping Materials.....	18
3M™ Vinyl Tapes.....	19
3M™ Masking Tapes	20–21
3M™ Duct Tapes.....	21
3M™ Tape Applicators.....	22

Tape Collections

What are they?

Manufacturers have a variety of extreme conditions to overcome both during and after a product is made. Whether it's high heat or chemical exposure, product parts can be put at risk for damage or reduced functionality. Tapes can help by protecting, masking, or holding these at-risk parts. But which tape will work best?

To make selection easier, we have grouped our industrial single-coated tape products around some of the most common manufacturing challenges.

The six key challenges:

- Resist Chemicals
- Withstand Temperatures
- Secure Anything
- Reduce Noise
- Regulate Friction
- Take on Weather
- Paint with Precision



Resist Chemicals



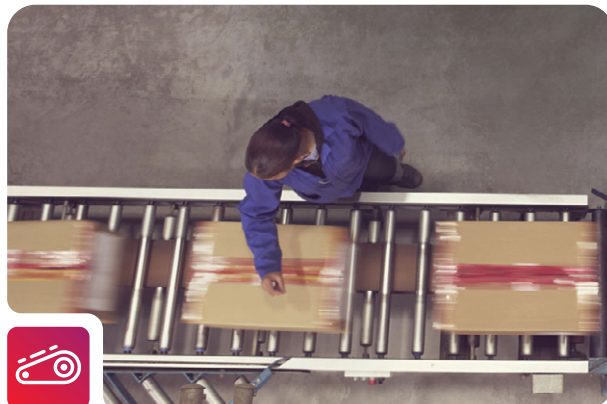
Withstand Temperatures



Secure Anything



Reduce Noise



Regulate Friction



Take on Weather



Paint with Precision



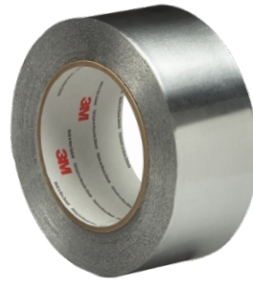
Resist Chemicals

Engineered to
Resist Chemicals

A strong seal keeps surfaces safe.

Aggressive chemicals are tools used in many modern production processes to form durable or decorative surfaces, or to make surfaces ready for another production step.

Due to the sensitive nature of some parts, design needs, or aesthetics, surfaces may need to be protected during chemical exposure. Here are a few leading tapes for these types of applications.



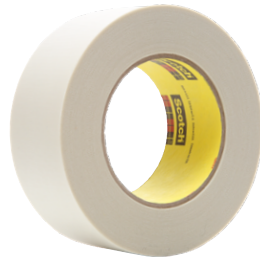
3M™ Aluminium Foil Tape 425

- Resists harsh chemical strippers and protects critical parts
- Removes cleanly when the job is done
- Exceptional conformability
- Quick stick
- Go-to tape for many aircraft maintenance specifications



3M™ Electroplating Tape 470

- One-piece clean removal**
- Conformable backing, great for irregular surfaces
- Great line definition
- Rubber adhesive helps minimize risk of silicone contamination
- Excellent resistance to electroplating chemicals



3M™ Glass Cloth Tape 361

- Strong abrasion resistant backing resists shrinking, rotting or burning, providing exceptional stability in harsh environments
- Pressure sensitive silicone adhesive for applications requiring high temperature resistance, high adhesion, and clean removal**

** Clean removal (depending, among other on time, temperature and UV-light exposure as well as the type of surface)



Withstand Temperatures

Engineered to

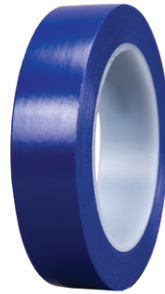
Withstand Temperatures

Powerful protection against hot and cold extremes.

Product parts can be exposed to extreme temperatures in both production processes and during long-term use. Tapes can be vital tools in protecting parts from unwanted heat or to maintain a part's surface design during a coating process.

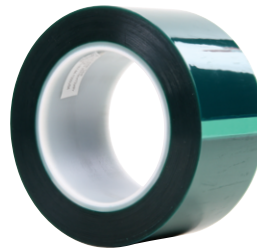
In the short-term, tapes on parts may need to survive applications such as high-temp paint curing cycles or welding processes.

Long-term, sensitive parts may be subject to heat from an exhaust pipe or the low temperatures of an airplane cargo hold. Tapes can provide a protective shield, helping increase part durability.



3M™ Vinyl Tape 471+

- Excels in masking applications to create sharp, fine paint lines
- Retains shape and hold during 30-minute bake cycles up to 121 °C
- Clean removal** without residue or ghosting
- Quick stick to most surfaces
- Exceptional conformability for paint masking of complex designs or on uneven surfaces



3M™ Polyester Tape 8992

- Works in a variety of common chemical baths
- Reliable, clean removal**
- Offers excellent protection and crisp lines
- Lined version works well in plotter machines



3M™ High Temperature Aluminium Foil/ Glass Cloth Tape 363

- Performs continuously over a wide temperature range from -54 °C to 316 °C
- Light and heat reflective, plus it resists flame, moisture, chemicals, weather, and UV degradation
- High tensile strength, puncture, fracture, and tear resistance
- Light and flexible construction easily conforms to curved or irregular surfaces
- Works to protect sensitive materials such as wires from long-term heat exposure or welding processes

** Clean removal (depending, among other on time, temperature and UV-light exposure as well as the type of surface)



Secure Anything

Engineered to **Secure Anything**

Unbeatable hold keeps everything in its place.

Whether during shipment of a product or on the production line, movement is constant. With movement comes the challenge of keeping parts aligned, protected, and functional.

Product damage or line shutdowns drive up costs, delay deliveries, and can create unavoidable warranty issues.

Tapes can help keep parts in place, make reliable splices, and give extra holding power to valuable shipments.



3M™ Polyester Tape 850

- Fast-grab adhesive helps minimize production slowdowns
- Tough, thin caliper film runs smoothly in most machinery
- High temperature resistance
- Multiple colours and a metalized version for easy splice detection
- Reliable splicing material for films



Scotch® Strapping Tape 8898

- Clean removal** from most surfaces
- Secure holding power
- Resists tearing, breaking, and abrasion
- Backing designed for easy use in manual or semi-automatic dispensers
- Made for part and appliance holding



Scotch® Filament Tape 890MSR

- Industrial-strength, filament-reinforced tape resists nicks, abrasion and moisture
- Modified synthetic rubber adhesive provides better adhesion than natural rubber adhesives and bonds well to metals and oily surfaces
- Glass yarn filaments add strength for pipe wrapping applications
- Excellent performance in the roughest shipping and handling conditions



3M™ Heavy Duty Duct Tape 3939

- Adhesive bonds immediately and holds for up to 1 year
- Durable, high-strength construction
- Clean removal** and water tight seal
- Maximum comfortability

** Clean removal (depending, among other on time, temperature and UV-light exposure as well as the type of surface)



Reduce Noise

Engineered to
Reduce Noise

Specially formulated to minimize noise and wear.

Even a little vibration can cause premature wear and tear on parts or make for a noisy product experience for your customers. The right fix has to be precisely designed to minimize every rattle and buzz while keeping your products running smoothly.

Specially formulated tapes can help provide a fast solution for long-lasting vibration mitigation on a range of surfaces.



3M™ UHMW Film Tape 5423

- Can help reduce squeaks, rattles, and other noises that occur with movement
- Translucent, abrasion-resistant backing helps protect surfaces from wear
- Low coefficient of friction for “slip plane” effect between surfaces
- Rubber adhesive provides good initial tack
- Made for helping to reduce noise in cars, planes, and more



3M™ Conformable Sound Management Film Tape 9343

- Non-woven, microfiber backing offers conformability, elasticity, compressibility, and durability
- Abrasion-resistant backing maintains a long wear life
- Withstands a temperature range of -34 °C to 121 °C
- Conformable design provides a solution for irregular-shaped parts where stiffer tapes fail



3M™ Damping Foil 2552

- Dead soft Aluminium foil and viscoelastic adhesive combination is designed to damp vibrations in panels and supports
- Withstands exposure to weathering, moisture, and UV
- Performs in temperatures ranging from -32 °C to 80 °C



Regulate Friction

Engineered to
Regulate Friction

Durable design delivers better command over slip and grip.

Working across different surfaces can mean you don't always get the performance you need. When materials are getting stuck or you're getting slip when you need grip, you want a reliable solution that gives you a wide range of surface control without risking damage to your equipment or product.

Carefully honed combinations of backing, like gliding PTFE or puncture-resistant glass cloth, and adhesive such as silicone or versatile acrylic, give you more ways to control your level of friction.



3M™ UHMW PE Film Tape 5421

- Translucent, abrasion-resistant backing helps protect surfaces from wear
- Low coefficient of friction for “slip plane” effect between surfaces
- Rubber adhesive provides good initial tack for immediate bonding to material surface
- Used in applications where lubrication is not possible because of contamination
- Great for lining chutes, conveyor guide rails, drawer slides, or anywhere you need smooth movement



3M™ Traction Tape 5401

- High coefficient of friction of fiberglass reinforced silicone backing assists with slowing material movement
- Nonstick, siliconized backing provides easy-release properties, so materials don't collect and interfere with processing
- Fiberglass reinforcement of backing provides durability and puncture resistance
- Silicone adhesive removes cleanly after use from most surfaces



3M™ Conformable Sound Management Film Tape 9343

- Non-woven, microfiber backing offers conformability, elasticity, compressibility, and durability
- Abrasion-resistant backing maintains a long wear life
- Withstands a temperature range of -34 °C to 121 °C
- Conformable design provides a solution for irregular-shaped parts where stiffer tapes fail

** Clean removal (depending, among other on time, temperature and UV-light exposure as well as the type of surface)



Take on Weather

Engineered to **Take on Weather**

Defensive barrier keeps moisture, dust, and UV rays out.

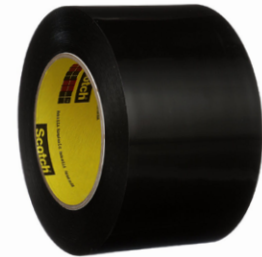
Rain, snow, or sunshine, your parts, products and components are often exposed to elements that cause corrosion, fading, and other costly damage. What's more, the wrong solution can be expensive or even cause damage of its own.

Select 3M™ Engineered Industrial Tapes can provide a conformable, rugged, weatherproof seal and clean, one-piece removal.



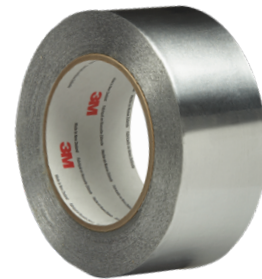
3M™ Vinyl Tape 471 Black

- Vinyl backing has a unique stretch that enables tape to remain stretched to conform to uneven surfaces without lifting and retracting
- Vinyl film backing provides puncture resistance and moisture barrier
- Engineered for tidy, one-piece removal to minimize cleanup and labor
- Black coloured backing absorbs sunlight, allowing tape to be used outdoors up to three months



3M™ Preservation Sealing Tape 481

- Polyethylene backing stretches and conforms to irregular surfaces and provides ability to cover difficult to reach areas
- Provides for one-piece, clean removal** from most substrates
- Provides weather resistance to hot and cold temperatures, moisture, and UV resistance for up to 24 months
- Excellent resistance to staining, common lubricants, and strippable coatings on a variety of surfaces



3M™ Aluminium Foil Tape 425

- Thermally conductive tape helps dissipate heat and improves heating and cooling efficiency to protect temperature sensitive materials
- Highly engineered acrylic adhesive provides long term durability, but removes cleanly after harsh masking applications
- Withstands exposure to flame, weathering, moisture and UV
- Heat and light reflective tape protects surfaces and enhances lighting efficiency



3M™ Performance Plus Duct Tape 8979

- Can survive 12 months of UV/water exposure
- Can remove cleanly up to 6 months
- Conforms to irregular surfaces without lifting
- Provides a tight, moisture-resistant seal in many containment situations
- Strong water-resistant backing resists wear and light abrasion

** Clean removal (depending, among other on time, temperature and UV-light exposure as well as the type of surface)



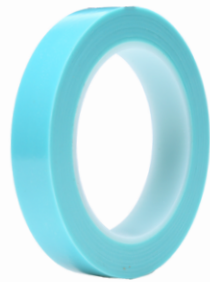
Paint with Precision

Engineered to Paint with Precision

Prevent bleeding and blurring to avoid costly rework.

The environment of the paint booth brings unique challenges that can lead to unexpected expense. Attention to detail at every step is what drives the final product to meet the demands of both quality and consistency.

You need a 3M™ Engineered Industrial Tape that provides the clean removal and crisp lines you need to meet those challenges the first time and every time.



Scotch® High Temperature Fine Line Tape 4737T

- Delivers sharp color separation
- Lays flat, even in high temperature or humidity conditions
- Temperature resistance up to 149 °C for up to 30 minutes
- Holds reliably to surface contours



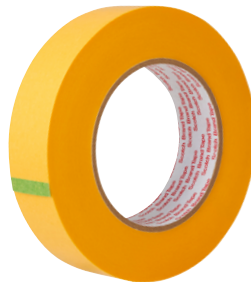
Scotch® Masking Tape 2800

- Provides superior masking on TPO (thermoplastic olefin) surfaces
- Formulated for bake cycles up to 149 °C for 30 minutes
- Removes cleanly with no residue, tracking, bleeding and resists ghosting
- Wide paint compatibility, specially designed to work with most industrial paints
- Clean removal**, up to 7 days outdoors



3M™ High Temperature Industrial Masking Tape 501E

- Designed for critical paint masking applications in the automotive, specialty vehicle, and industrial markets
- Can withstand medium temperature bake ovens up to 160 °C for 1h
- Suitable for UV-curing and bake cycles, oven-drying systems, IR or heat lamps
- Excellent holding power that resists lifting or curling









Scotch® Performance Masking Tape 244

- For applications where UV resistance and clean removal** is required and with an optimum temperature of 100 °C for 30 minutes
- Long term indoor use with clean removal** up to 30 days and UV resistance for outdoor use up to 21 days
- Removes cleanly in one piece with no residue from most surfaces
- It offers a sharp paint line
- Ultra-flat paint edges - extremely thin backing material

** Clean removal (depending, among other on time, temperature and UV-light exposure as well as the type of surface)

Scotch® and Tartan™ High Strength Filament Tapes


Tape Collection	Product Number	Tensile Strength N/100 mm	Backing Material	Reinforcement	Total Thickness mm	Adhesive Type	Adhesion Strength N/100 mm	Elongation %	Backing Colour	Typical Use and Comments
Universal Filament										
	8953*	2500	Polypropylene	Glass filament	0.10	Synthetic Rubber (SR)	55.2	0.1	Translucent	Cost-effective general purpose filament tape used for light-duty strapping, bundling, and reinforcing applications.
	8954*	1352	Polypropylene	Glass filament	0.125	Synthetic Rubber (SR)	70	0.1	Translucent	Cost-effective general purpose filament tape used for holding boxes together on pallets, salvaging torn, bundling of light to medium weight products.
	8956	2600	BOPP	Glass Yarn	0.12	Synthetic Rubber (SR)	80	0.06	Translucent	Universal general purpose filament tape mainly used for holding boxes together on pallets, bundling of lightweight products, closing and reinforcing of fibreboard boxes.
	8959	2600	Polypropylene	Bi-Directional Fiberglass	0.14	Synthetic Rubber (SR)	110	0.06	Translucent	Universal general purpose high strength filament tape ideal for medium-duty strapping, bundling, splicing, and reinforcing.
	8981	6660	Polyester	Glass Yarn	0.168	Synthetic Rubber (SR)	77.2	0.03	Translucent	Heavy-duty performance filament tape ideal for L-clip and U-clip closures, metal coil tabbing and bundling.
	8915	2980	Polypropylene	Fiberglass	0.152	Synthetic Rubber (SR)	71.2	3	Translucent	Clean removal** filament tape designed to hold appliance parts and other consumer goods in place during manufacturing and shipping.
	890MSR	10500	Polyester	Fiberglass	0.20	Modified Synthetic Rubber (MSR)	88	3	Translucent/Black	Metal coil closure. Good adhesion to oily surfaces.
	8898	2800	MOPP (Polypropylene)	None	0.12	Synthetic Rubber (SR)	82	32	Blue / Ivory	Appliance. Secure and stabilize parts. Clean removal**. High adhesion.

* Tartan™ branded

** Clean removal (depending, among other on time, temperature and UV-light exposure as well as the type of surface)

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.

Scotch® Tensilized Polypropylene Tapes

Tape Collection	Product Number	Tensile Strength N/100 mm	Backing Material	Reinforcement	Total Thickness mm	Adhesive Type	Adhesion Strength N/100 mm	Elongation (%)	Colour	Typical Use and Comments
	8898	2802	MOPP (Polypropylene)	None	0.12	Synthetic Rubber	82	32	Blue/Ivory	Appliance. Secure and stabilize parts. Clean removal**, High adhesion.

Scotch® Stretchable Tapes






Tape Collection	Product Number	Tensile Strength N/100 mm	Backing Material	Total Thickness mm	Adhesive Type	Adhesion Strength N/100 mm	Elongation (%)	Colour	Typical Use and Comments
	8886	490	Polyethylene	0.17	Synthetic Rubber	71	720	Clear	Load containment.

* Tartan™ branded





** Clean removal (depending, among other on time, temperature and UV-light exposure as well as the type of surface)

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.





3M™ Application Specific Tapes

Tape Collection	Product Number	Colour	Adhesive Type	Backing Material	Backing Thickness mm	Liner Type	Total Thickness mm	Adhesion to Steel N/100 mm	Tensile Strength N/100 mm	Elongation at Break %	Temperature Range °C	Typical Use and Comments
Graphic Arts Tapes												
	616	Ruby Red	Rubber	UPVC	0.04	—	0.06	39	509	50	Up to 49	Lithographers' tape.
High Temperature Tapes												
	8997/8997L	Amber	Silicone	Polyimide	0.02	Polyester	0.06	24	453	37	Up to 260	Transparent film. High-temperature applications. 8997L is lined version.
Riveters Tapes												
	695	Yellow	Acrylic strip coated along edges of tape only	Polyethylene	0.05	—	0.08	16	140	120	-29 to 49	Yellow film. White adhesive.
Venting Tapes												
	394	White	Acrylic	Non-Woven	0.11	—	0.13	13	100	18	Up to 49	Air-permeable backing.
	3294	Pink	Acrylic	Non-Woven	0.11	—	0.13	10	140	15	Up to 49	Most permeable venting tape. Strip coated.
Nylon Tapes												
	855	White	Rubber	Nylon	0.05	—	0.08	60	540	470	16 to 204	Composite bonding tape.
Long Term Protection												
	7070UV	Clear	Acrylic	Polyurethane	0.17	—	0.20	51	1162	656	-28 to 77	Durable. Abrasion resistant. UV-resistant surface protection.
	7071UV	Clear	Acrylic	Polyurethane	0.31	—	0.36	52	963	754	-28 to 77	Durable. Abrasion resistant. UV-resistant surface protection.
Other Specialty Tapes												
	346	Tan	Rubber	Flat Paper Stock	0.38	—	0.42	24	490	4	16 to 38	Heavy-duty abrasion. Moisture and UV protection.
	5401	Tan	Silicone	Fiberglass Reinforced Silicone	0.20	—	0.24	13	3853	7	Up to 148	High coefficient of friction for traction.
	9343	Black	Acrylic	Non-Woven	0.37	Paper	0.50	30	88	400	Up to 121	Conformable for irregular parts.





3M™ Glass Cloth Tapes

Tape Collection	Product Number	Colour	Adhesive Type	Backing Material	Backing Thickness mm	Liner Type	Total Thickness mm	Adhesion to Steel N/100 mm	Tensile Strength N/100 mm	Elongation at Break %	Temperature Range °C	Meets Specifications	Typical Use and Comments
	361	White	Silicone	Glass Cloth	0.13	—	0.16	42	2555	10	-54 to 232	F.A.R. 25.853	General purpose glass cloth tape.
	3615	White	Silicone	Glass Cloth	0.13	—	0.18	38	3140	7	-54 to 232	—	General purpose glass cloth tape.
	365	White	Thermoset Rubber	Glass Cloth	0.12	—	0.20	57	2430	7	4 to 232	—	Splicing textured surfaces. Thermosetting adhesive.
	398FR	White	Acrylic	Glass Cloth	0.13	Blue Film	0.18	42	2276	7	-29 to 121	BMS 5-146; F.A.R. 25.853(a); F.A.R. 25.855(d)	Skip-slit liner for ease of application.

3M™ Metal Foil Tapes

Tape Collection	Product Number	Colour	Adhesive Type	Backing Material	Backing Thickness mm	Liner Thickness mm	Liner Type	Total Thickness mm	Adhesion to Steel N/100 mm	Tensile Strength N/100 mm	Elongation at Break %	Meets Specifications	Temperature Range °C	Typical Use and Comments
Premium Performance														
	425	Silver	Acrylic	Aluminium Foil	0.07	—	—	0.12	51	490	6	F.A.R. 25.853(a); SAE AMS T-23397; UL 723; UL 746C; LT-80 C	-54 to 149	Most versatile aluminium tape.
	427	Silver	Acrylic	Aluminium Foil	0.07	0.08	Easy Release Film	0.12	55	490	6	F.A.R. 25.853(a); UL 723; UL 746C; LT-80 C	-54 to 149	Lined version of 425.
	431	Silver	Acrylic	Aluminium Foil	0.05	—	—	0.08	37.3	302	3	F.A.R. 25.853(a)	-54 to 149	Conformable aluminium tape.
	433	Silver	Silicone	Aluminium Foil	0.05	—	—	0.09	43.8	350	3.5	F.A.R. 25.853(a); US Gov A-A-59258	-54 to 316	Silicone adhesive for high temperature resistance. Smooth, easy unwind, clean, straight edges for minimal wrinkling.





3M™ Metal Foil Tapes (cont.)

Tape Collection	Product Number	Colour	Adhesive Type	Backing Material	Backing Thickness mm	Liner Thickness mm	Liner Type	Total Thickness mm	Adhesion to Steel N/100 mm	Tensile Strength N/100 mm	Elongation at Break %	Meets Specifications	Temperature Range °C	Typical Use and Comments
Premium Performance														
	433L	Silver	Silicone	Aluminium Foil	0.05	0.08	Easy Release Film	0.09	42.0	350	3.5	F.A.R. 25.853(a)	-40 to 316	Lined version of 433.
Lead Foil														
	420	Dark Silver	Rubber	Lead Foil	0.13	—	Easy Release Film	0.19	49	350	12	—	-51 to 107	Lined plating tape.
	421	Dark Silver	Rubber	Lead Foil	0.1	0.09	—	0.17	49	263	14	—	-51 to 107	Self-wound plating tape
Specialty and Reinforced Foils														
	363	Silver	Silicone	Aluminium Foil Laminated to Glass Cloth	0.086	—	—	0.19	57	2364	7	F.A.R. 25.853(a)	-54 to 316	Aluminium foil/glass cloth. Highest temperature metal foil tape.
	363L	Silver	Silicone	Aluminium Foil Laminated to Glass Cloth	0.086	0.08	Easy Release Film	0.19	57	2364	7	F.A.R. 25.853(a)	-54 to 316	Lined version of 363.








* Scotch® Tape brand.

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.








3M™ Sound Damping Foils

Tape Collection	Product Number	Colour	Adhesive Type	Backing Material	Backing Thickness mm	Liner Type	Total Thickness mm	Adhesion to Steel N/100 mm	Tensile Strength N/100 mm	Elongation at Break %	Temperature Range °C	Meets Specifications	Typical Use and Comments
	434	Silver	Viscoelastic Polymer	Aluminium Foil	0.14	Polyethylene	0.19	71.2	876	12	-60 to 20	F.A.R. 25.853(a)	Low temperature, vibration damping.
	435	Silver	Viscoelastic Polymer	Aluminium Foil	0.2	Polyethylene	0.34	71.2	876	12	-60 to 20	F.A.R. 25.853(a)	Low temperature, vibration damping.
	436	Silver	Viscoelastic Polymer	Aluminium Foil	0.31	Polyethylene	0.44	71.2	876	12	-60 to 20	F.A.R. 25.853(a)	Low temperature, vibration damping.
	2552	Silver	Viscoelastic Polymer	Aluminium Foil	0.25	Polyethylene	0.38	72	2205	7	-32 to 80	ASTM E756-83	General purpose, vibration damping.

3M™ Polyester Tapes

Tape Collection	Product Number	Colour	Adhesive Type	Backing Material	Backing Thickness mm	Total Thickness mm	Adhesion to Steel N/100 mm	Tensile Strength N/100 mm	Elongation at Break %	Temperature Range °C	Typical Use and Comments
General Industrial Tapes											
	396	Transparent	Rubber	Polyester	0.04	0.10	153	753	140	4 to 93	Adhesion to low surface energy materials.
	850	Various	Acrylic	Polyester	0.02	0.05	33	491	120	-50 to 150	Splicing, holding, sealing. Transparent, red, black, and white.
	853	Transparent	Acrylic	Polyester	0.03	0.06	50	434	83	-50 to 150	L-T-100. F.A.R. 25.853(a).
	8412	Transparent	Acrylic	Polyester	0.12	0.16	36	2450	180	-50 to 150	Heavy-duty edge and hole reinforcing.
High Temperature Masking and Liner Splicing Tapes											
	875	Seafoam Green	Rubber	Polyester	0.03	0.052	37	590	105	140 to 204	High temperature, non-silicone composite bonding.
	876	Seafoam Green	Rubber	Polyester	0.05	0.078	36	1160	128	140 to 204	High temperature, non-silicone composite bonding.
 	8402	Translucent Green	Silicone	Polyester	0.02	0.05	26	438	100	-50 to 218	Adheres well to silicone.

3M™ Polyester Tapes (cont.)




Tape Collection	Product Number	Colour	Adhesive Type	Backing Material	Backing Thickness mm	Total Thickness mm	Adhesion to Steel N/100 mm	Tensile Strength N/100 mm	Elongation at Break %	Temperature Range °C	Typical Use and Comments
High Temperature Masking and Liner Splicing Tapes											
	8403/ 8403L	Translucent Green	Silicone	Polyester	0.04	0.06	29	806	150	-50 to 218	Adheres well to silicone. 8403L is lined version.
	8901	Blue	Silicone	Polyester	0.02	0.06	31	455	115	-50 to 204	High temperature coating.
	8902	Blue	Silicone	Polyester	0.05	0.08	40	805	100	-50 to 204	High temperature coating.
	8905	Blue	Silicone	Polyester	0.12	0.17	28	1920	115	-50 to 204	High temperature coating.
	8911	Transparent	Silicone	Polyester	0.02	0.05	29	440	110	-50 to 204	High temperature label protection.
	8991/ 8991L	Blue	Silicone	Polyester	0.03	0.06	34	508	100	-50 to 204	Thin tapes. Powder coat masking. High temperature applications. 8991L is lined version.
	8992/ 8992L	Green	Silicone	Polyester	0.05	0.08	48	998	148	-50 to 204	Powder coat and anodized masking. High temperature applications. 8992L is lined version.
	8985L	Purple	Rubber	Polyester	0.076	0.099	25 25	1234	131	Up to 93	Anodized masking applications.
Photo Film Splicing Tapes											
	8422	Black	Rubber	Polyester	0.04	0.06	54	754	140	-50 to 150	Photo film splicing.
Reflective Tapes											
	850	Silver	Acrylic	Polyester	0.02	0.05	46	491	120	-50 to 150	Splicing, holding, sealing, decorating, and silver colour-coding.

3M™ Polyethylene Tapes

Tape Collection	Product Number	Colour	Adhesive Type	Backing Material	Backing Thickness mm	Total Thickness mm	Adhesion to Steel N/100 mm	Tensile Strength N/100 mm	Elongation at Break %	Temperature Range °C	Typical Use and Comments
Polyethylene Tapes											
	480	Transparent	Acrylic	Polyethylene	0.10	0.13	24	210	520	-7 to 76	Acrylic adhesive.
	483	Various	Rubber	Polyethylene	0.10	0.13	21	175	300	Up to 77	Available in black, blue, red, transparent, white, and yellow. MIL-STD 2041D (SH).

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.


3M™ UHMW-PE Tapes

Tape Collection	Product Number	Colour	Adhesive Type	Backing Material	Backing Thickness mm	Liner Type	Total Thickness mm	Adhesion to Steel N/100 mm	Tensile Strength N/100 mm	Elongation at Break %	Temperature Range °C	Typical Use and Comments
	5421	Transparent	Rubber	UHMW-PE	0.13	60# Densified Kraft Paper	0.17	28	526	275	-34 to 107	General purpose tape to protect plastic and metal chutes, guide rails, and containers from wear.
	5423	Transparent	Rubber	UHMW-PE	0.25	60# Densified Kraft Paper	0.30	28	963	300	-34 to 107	Excellent abrasion resistance and low coefficient of friction make this an effective solution for noise and vibration problems.
	5425	Transparent	Acrylic	UHMW-PE	0.08	55# Densified Kraft Paper	0.13	33	788	100	-34 to 107	Solvent resistant adhesive with low coefficient of friction and abrasion resistance.

3M™ Preservation Tapes

Tape Collection	Product Number	Colour	Adhesive Type	Backing Material	Backing Thickness mm	Total Thickness mm	Adhesion to Steel N/100 mm	Tensile Strength N/100 mm	Elongation at Break %	Temperature Range °C	Typical Use and Comments
Preservation Tapes											
	481	Black	Rubber	Polyethylene	0.20	0.25	28	260	510	-7 to 76	Preservation sealing tape. MIL-T-22085 Amend 3, Type IV. Clean removal** up to 2 years.




3M™ Gripping Materials

Tape Collection	Product Number	Colour	Relative Durability 1-10	Relative Friction 1-10: Low-High		Relative Tackility 1-10	Thickness mm without liner	Weight g/m ² without liner	Temperature Use Range °C	Relative Chemical Resistance	Relative UV Resistance 1-10
				Mated	Unmated						
Adhesive-backed: 3M pressure sensitive acrylic for bonding to high and low surface energy materials											
	GM641	Black	5	9	8	6	0.8	440	-40 to 71	5	5

** Clean removal (depending, among other on time, temperature and UV-light exposure as well as the type of surface)

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.




















3M™ Vinyl Tapes

Tape Collection	Product Number	Colour	Adhesive Type	Backing Material	Backing Thickness mm	Total Thickness mm	Adhesion to Steel N/100 mm	Tensile Strength N/100 mm	Elongation at Break %	Temperature Range °C	Typical Use and Comments
Premium Performance Vinyl Tapes											
	471	Various	Rubber	Vinyl	0.10	0.13	28	270	150	4 to 77	Conformable and clean removal**. Black, blue, green, orange, red, transparent, white, and yellow. MIL-STD 2041D (SH).
	471+	Indigo	Rubber	Vinyl	0.10	0.13	38.3	243	191	Up to 121	Superior conformability. Sharp paint lines. Clean removal**.
	472	Black	Rubber	Vinyl	0.23	0.26	25	560	270	Up to 107	Abrasion and high temperature resistant.
	477	Transparent	Rubber	Vinyl	0.15	0.18	26	420	230	4 to 77	Abrasion resistant.
	971/ 971L	Yellow, White, Red, Blue, Orange and Green	Rubber	Vinyl	0.38	0.49	41	1190	250	Up to 49	Exceptional durability. Abrasion resistant. Clean removal**.
General Purpose Vinyl Tapes											
	764	Various	Rubber	Vinyl	0.10	0.13	21	228	180	15 to 27	Non-critical applications. Black, blue, brown, gray, green, orange, purple, red, transparent, white, and yellow.
Safety Stripe Tapes											
	5700	Black/White	Rubber	Vinyl	0.11	0.14	21	260	170	4 to 77	Critical applications. Adhesive side printing for long-life.
	5702	Black/Yellow	Rubber	Vinyl	0.11	0.14	21	260	170	4 to 77	Critical applications. Adhesive side printing for long-life.
	766	Black/Yellow	Rubber	Vinyl	0.10	0.13	21	228	180	15 to 27	Non-critical marking applications.
	767	Red/White	Rubber	Vinyl	0.10	0.13	21	228	180	15 to 27	Non-critical marking applications.
Electroplating and Anodizing Tapes											
	470	Tan	Rubber	Vinyl	0.16	0.18	40	350	180	Up to 77	Conformable and abrasion resistant for masking various surfaces during electroplating and anodizing.

** Clean removal (depending, among other on time, temperature and UV-light exposure as well as the type of surface)

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.






3M™ Masking Tapes

Tape Collection	Product Number	Colour	Adhesive Type	Backing Material	Total Thickness mm	Adhesion to Steel N/100 mm	Tensile Strength N/100 mm	Elongation at Break %	Temperature Range °C	Typical Use and Comments
3M™ Fine Line Tapes										
 	218	Green	Rubber	Poly-propylene	0.13	40	228	720	121	Good for long, straight lines.
 	4737T	Blue	Rubber	Vinyl	0.13	16	280	75	149	Conformable, high temperature vinyl fine line tape for fascia panels, two-tone and other multiple color applications where critical paint break lines are required.
 	471+	Indigo	Rubber	Vinyl	0.13	38	245	191	121	Superior conformability. Sharp paint lines. Clean removal**.
 	2800	Blue	Acrylic	Polyolefin	0.105	17	350	1000	149	Ideal for the transportation OEM industry for paint masking of metal and plastic surfaces. Can be used for temporary protection of some metal, painted, plastic, and rubber surfaces.
3M™ Crepe Masking Tapes										
	101E	Tan	Rubber	Crepe Paper	0.12	20	356	8	60	Indoor use. Light-duty applications.
	201E	Chamois	Rubber	Crepe Paper	0.14	24	356	10	80	General indoor use. Light-to-medium duty. Clean removal**.
 	301E	Chamois	Rubber	Crepe Paper	0.15	36	380	10	100	Good conformability to irregular surfaces. Good paint lines.
 	401E	Brown	Rubber	Crepe Paper	0.16	40	400	10	140	Highly conformable to many surfaces. Superior adhesion to metal, rubber, glass and plastic. Great paint lines.
 	501E	Chamois	Rubber	Crepe Paper	0.15	44	424	10	160	Exceptionally conformable to irregular surfaces. Superior adhesion to metal, rubber, glass and plastic. Removes cleanly in one piece with no residue. Great paint lines.
	2814	Green	Rubber	Crepe Paper	0.12	28	330	15	79	Designed for outdoor applications, including paint masking, bundling, surface protection and temporary holding. Offers UV resistance for up to 14 days.
 	244	Gold	Acrylic	Washi Paper	0.08	8	304	6	100	For paint bake operations at temperatures up to 100 °C. Offers UV resistance for up to 21 days.









** Clean removal (depending, among other on time, temperature and UV-light exposure as well as the type of surface)

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.

3M™ Masking Tapes (continued)

Tape Collection	Product Number	Colour	Adhesive Type	Backing Material	Total Thickness mm	Adhesion to Steel N/100 mm	Tensile Strength N/100 mm	Elongation at Break %	Temperature Range °C	Typical Use and Comments
3M™ Crepe Masking Tapes (continued)										
	2380	Tan	Natural/Synthetic Rubber Blend	Crepe Paper	0.182	43	490	10	163	High temperature. Best holding to widest variety of surfaces.
	2693	Tan	Synthetic Rubber	Crepe Paper	0.2	44	508	10	163	Very aggressive holding. Excellent for multi-bake paint cycles.
	213	Tan	Rubber	Crepe Paper	0.152	37	473	10	177	Good on anodized aluminum.
	202	Natural	Rubber	Crepe Paper	0.17	42	460	10.5	95	High strength, high performance paint masking tape. Use for creating sharp paint lines.
	232	Chamois	Rubber	Crepe Paper	0.18	38	488	8	120	It excels at paint masking and can be used for bundling, protecting or any other similar job.





3M™ Duct Tapes

Tape Collection	Product Number	Colour	Adhesive Type	Backing Material	Total Thickness mm	Adhesion to Steel N/100 mm	Tensile Strength N/100 mm	Elongation at Break %	Temperature Range °C	Typical Use and Comments
	8979	Slate Blue	Rubber	Polyethylene	0.29	62	639	17	93	Up to six months clean removal** from most opaque surfaces indoors and outdoors.
 	DT8	Silver and Black	Natural/Synthetic Rubber Blend	Polyethylene film over cloth scrim	0.2	75	407	20	—	Light duty holding and bundling applications for a wide variety of materials and substrates.
 	3939	Silver	Rubber	Polyethylene film over cloth scrim	0.22	63	473	17	93	Clean removal** up to one month. Holds up to one year indoors without deteriorating.
	389	Black, Blue, Green, Red, Silver, White, Yellow	Synthetic Rubber	Polyethylene/Cloth Scrim	0.26	90	800	6	70	Available in different colours and dimensions. Strong water-resistant backing resists wear and light abrasion.
	2903	Black, Silver	Synthetic Rubber	Polyethylene/Cloth Scrim	0.15	80	400	30	—	General purpose conformable duct tape for general maintenance, bundling, wrapping, attaching, sealing, and protecting.
	1900	Silver and Black	Synthetic Rubber/Resin	Polyethylene coated cloth scrim	0.17	60	280	20	60	Cost-effective duct tape for utility and general use and lighter duty non-critical applications.

** Clean removal (depending, among other on time, temperature and UV-light exposure as well as the type of surface)

Note: The technical information and data on these pages should be considered representative or typical only and should not be used for specification purposes.

3M™ Tape Applicators

Product	Applicator	Max Width mm	Compatible Tapes
Paint Masking Applicators			
	3M™ Adjustable Masking Applicator ACR21	19	2800, 4737, 4735, 471+, 218
	3M™ Adjustable Masking Applicator ACL21	19	2800, 4737, 4735, 471+, 218
	3M™ Adjustable Masking Applicator DDR21	19	2800, 4737, 4735, 471+, 218
	3M™ Adjustable Masking Applicator DDL21	19	2800, 4737, 4735, 471+, 218



Find the right solution for your challenges.

3M has hundreds of options when it comes to single-coated tape solutions. Let our engineers help guide your selection with our online tape selector, the easy way to find solutions to manage every variable.



Important Note

Product Selection and Use: Many factors beyond 3M's control and uniquely within users' knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Automotive Disclaimer

Select Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

© 3M 2024. All rights reserved. 3M and Tartan are trademarks of 3M Company. Scotch is a registered trademark of 3M Company.



Industrial Tapes and Adhesives Division

3M United Kingdom PLC

3M Centre

Cain Road

Bracknell, RG12 8HT

3M Ireland Ltd

Iveagh Building

The Park 18, Carrickmines

Co. Dublin, D18 X015