3M Science. Applied to Life.™

Engineered Industrial Tapes Product Guide

Table of Contents

Tape Collections 3

Resist Chemicals 4

3M™ Aluminum Foil Tape 425
3M™ Electroplating Tape 470
3M™ Polyester Tape 8992

Withstand Temperatures 5

3M™ Polyester Tape 875
3M™ High Temperature Aluminum Foil/Glass Cloth Tape 363
3M™ Performance Masking Tape 2380

Secure Anything 6

3M™ Polyester Tape 850
Scotch® Strapping Tape 8898
Scotch® Filament Tape 898
3M™ Heavy Duty Duct Tape 3939

Reduce Noise 7

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

Regulate Friction 8

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

Take on Weather 9

3M™ Vinyl Tape 471 Black
3M™ Performance Plus Duct Tape 8979
3M™ Preservation Sealing Tape 481
3M™ Weather Resistant Film Tape 838

Paint with Precision 10

Scotch® High Temperature Fine Line Tape 4737S
3M™ High Performance Green Masking Tape 401+
Scotch® Ultimate Paint Edge Masking Tape 2460

Product Catalog

Scotch® and Tartan™ High Strength Filament Tapes 11
3M™ Impact Stripping Tapes 12
Scotch® Tensilized 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™ Gripping Materials 18
3M™ UHMW-PE Tapes 18
3M™ Preservation Tapes 19
3M™ Polyethylene Tapes 19
3M™ Vinyl Tapes 20
3M™ Masking Tapes 21–22
3M™ Duct Tapes 22
3M™ Tape Applicators 23

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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 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

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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.

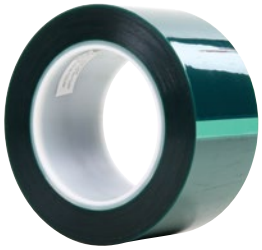
Due to the sensitive nature of some parts, design needs, or aesthetics, surfaces may need to be protected during chemical exposure. Here are a few leading tapes for these types of applications.

3M™ Aluminum 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™ Polyester Tape 8992

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

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™ Polyester Tape 875

- Works in demanding conditions up to 204°C/400°F
- Good initial tack and holding strength
- One-piece clean removal
- Rubber adhesive helps minimize risk of silicone contamination
- Great for autoclave and powder coating applications

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

- Performs continuously over a wide temperature range up to -54°C/-65°F to 316°C/ 600°F
- 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

3M™ Performance Masking Tape 2380

- Temp resistance up to 162°C/325°F
- Smooth backing and high holding power
- Adhesive bonds instantly to many surfaces
- Holds in place without lifting or curling
- Has excellent comfortability and easy tear

Engineered to

Secure Anything

Unbeatable hold keeps everything in its place.

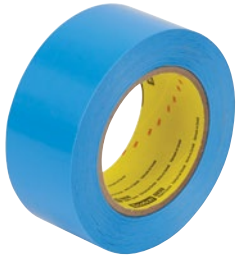
Whether during shipment of a product or on the production line, movement is constant. With movement comes the challenge of keeping parts aligned, protected, and functional.

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 colors 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 898

- Heavy-duty filament tape maximizes strength
- High cut and tear resistance
- Quick-grab and high adhesion
- Excellent performance in L-clip box closure applications
- Works where high strength is needed, such as in metal splicing, coil tabbing, pipe bundling, or reinforcing bulk containers

3M™ Heavy Duty Duct Tape 3939

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

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

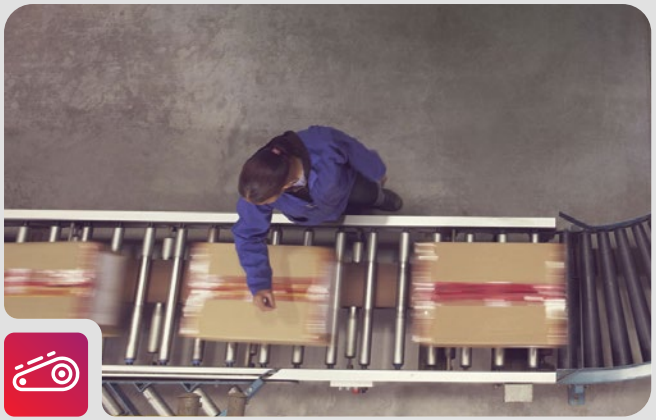
- Can help reduce squeaks, rattles, and other noises that occur with movement
- Translucent, abrasion-resistant backing helps protect surfaces from wear
- Low coefficient of friction for “slip plane” effect between surfaces
- Rubber adhesive provides good initial tack
- Made for helping to reduce noise 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, is die-cuttable, and passes FMVSS 302
- Withstands a temperature range of -34°C/-30°F to 121°C/250°F
- Conformable design provides a solution for irregular-shaped parts where stiffer tapes fail

3M™ Damping Foil 2552

- Dead soft aluminum 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/-25°F to 80°C/175°F
- Meets flame retardancy requirements of F.A.R. 25.853(a) and can pass ASTM E-162 and ASTM-E 662 for flammability and smoke generation



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
- Conformable design provides a solution for irregular-shaped parts
- Durable, abrasion-resistant backing maintains a long wear life, is die-cuttable and passes FMVSS 302
- Withstands a temperature range of -34°C/-30°F to 121°C/250°F
- Designed to help reduce noise, friction, vibration, squeaks and rattles in automotive interior applications
- Acrylic adhesive produces excellent bond strength

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 colored backing absorbs sunlight, allowing tape to be used outdoors up to three months

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

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
- Can be certified to Military Specification: SAE AMS-T-22085

3M™ Weather Resistant Film Tape 838

- PVF backing is inherently resistant to weathering
- Backing remains tough and flexible over a broad temperature range of -73°C/-100°F to 107°C/225°F
- Aggressive acrylic adhesive has excellent permanent adhesion to a variety of surfaces
- Outstanding mechanical properties and inertness toward a wide variety of chemicals, solvents, and staining agents

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 4737S

- Delivers sharp color separation
- Lays flat, even in high temperature or humidity conditions
- Temperature resistance up to 149°C/ 300°F
- Holds reliably to surface contours

3M™ High Performance Green Masking Tape 401+

- Great conformability on corners or irregular surfaces
- Resists paint bleed, even in high-temperature baking
- Temperature resistance up to 121°C/ 250°F
- Removes cleanly in one piece with no adhesive residue
- Green backing improves visibility and accuracy during paint masking

Scotch® Ultimate Paint Edge Masking Tape 2460

- Thin backing material provides clean paint lines
- Acrylic adhesive offers good, instant adhesion
- Temperature-resistant, capable of withstanding paint bake operations of up to 149°C/ 300°F
- Peels off cleanly, without leaving adhesive residue
- Solvent and moisture resistance prevents paint bleed-through

Product Catalog

Scotch® and Tartan™ High Strength Filament Tapes

Tape Collection	Product Number	Backing Color	Reinforcement	Adhesive Type	Backing Material	Total Thickness mm (mils)	Adhesion Strength N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Typical Use and Comments
Universal Filament										
	898	Clear	Fiberglass	Synthetic Rubber (SR)	Polypropylene	0.17 (6.6)	77 (70)	6655 (380)	5	L-clip box closure. General bundling and reinforcing. Very high strength. Versatile. Good adhesion to many substrates.
	893	Clear	Fiberglass	Synthetic Rubber (SR)	Polypropylene	0.15 (6.0)	60 (55)	5254 (300)	5	Box closing, palletizing, strapping, bundling, and reinforcing. High strength.
	897	Clear	Fiberglass	Synthetic Rubber (SR)	Polypropylene	0.15 (6.0)	65 (60)	2977 (170)	3	Box closing, palletizing, strapping, bundling, and reinforcing. Medium strength.
	8934*	Clear	Fiberglass	Synthetic Rubber (SR)	Polypropylene	0.10 (4.0)	65 (60)	1751 (100)	3	Box closing, palletizing, strapping, bundling, and reinforcing. Utility.
High Adhesion Filament										
	890MSR	Clear/Black	Fiberglass	Modified Synthetic Rubber (MSR)	Polyester	0.20 (8.0)	88 (80)	10500 (600)	3	Metal coil closure. Good adhesion to oily surfaces.
	8919MSR	Clear	Fiberglass	Modified Synthetic Rubber (MSR)	Polyester	0.18 (7.0)	109 (100)	6655 (380)	3	Metal coil closure. Good adhesion to oily surfaces. Thicker backing for improved handling.
Specialty Filament										
	890RCT	Clear	Fiberglass	Synthetic Rubber (RCT)	Polyester	0.20 (8.0)	82 (75)	10500 (600)	3	Basiloid. Heavy appliance lifting. Good adhesion to recycled corrugate.
	8916V	Clear/ Blue	Fiberglass	Synthetic Rubber (SR)	Polypropylene	0.17 (6.8)	82 (75)	3678 (210)	3	Appliance. Secure and stabilize parts. Clean removal. Thicker backing.
	8915	Clear	Fiberglass	Synthetic Rubber (SR)	Polypropylene	0.15 (6.0)	71 (65)	2977 (170)	3	Appliance. Secure and stabilize parts. Clean removal.
	8959	Clear	Bi-Directional Fiberglass	Synthetic Rubber (SR)	Polypropylene	0.15 (5.7)	109 (100)	2627 (150)	6	Heavy box closure. Splicing. Metal parts bundling. Bi-directional filament for excellent cut and puncture resistance. High adhesion.
	890HD	Clear	Glass Yarn	Pressure-Sensitive Rubber Resin	Polyester	0.287 (11.3)	88 (80)	21012 (1200)	4	Very high strength and abrasion resistant backing used for demanding pipe reinforcement in the Oil & Gas industry.

*Tartan™ branded.

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3M™ Impact Stripping Tapes

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Liner Type	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Elongation at Break %	Typical Use and Comments
—	500	Green	Acrylic	Rubber	Paper	0.9 (36)	31 (29)	85	Good for small lettering. Acrylic adhesive ideal for use during plastic media blasting.
—	528	Tan	Acrylic	Rubber	Paper	2.1 (82)	31	145	Thickest-backed sandblast stencil product.

Scotch® Tensilized Polypropylene Tapes

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Total Thickness mm (mils)	Adhesion Strength N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Typical Use and Comments
	8898	Blue/Ivory	Synthetic Rubber	MOPP (Polypropylene)	0.12 (4.6)	82 (75)	2802 (160)	32	Appliance. Secure and stabilize parts. Clean removal. High adhesion.
	8896	Blue/Ivory	Synthetic Rubber	MOPP (Polypropylene)	0.12 (4.6)	77 (70)	2800 (160)	32	Appliance. Secure and stabilize parts. Clean removal. High adhesion.

Scotch® Stretchable Tapes

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Total Thickness mm (mils)	Adhesion Strength N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Typical Use and Comments
	8886	Clear	Synthetic Rubber	Polyethylene	0.17 (6.6)	71 (65)	490 (28)	720	Load containment.

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3M™ Application Specific Tapes

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Backing Thickness mm (mils)	Liner Type	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Temperature Use Range °C (°F)	Typical Use and Comments
Graphic Arts Tapes												
—	616	Ruby Red	Rubber	UPVC	0.04 (1.6)	—	0.06 (2.4)	39 (36)	509 (29)	50	Up to 49 (Up to 120)	Film splicing and masking.
High Temperature Tapes												
	8997/ 8997L	Amber	Silicone	Polyimide	0.02 (1.0)	Polyester	0.06 (2.2)	24 (22)	453 (26)	37	Up to 260 (Up to 500)	Transparent film. High-temperature applications. 8997L is linered version.
	8998/ 8998L	Amber	Silicone	Polyimide	0.05 (2.0)	Polyester	0.08 (3.3)	20 (19)	963 (55)	49	Up to 260 (Up to 500)	Transparent film. High-temperature applications. 8998L is linered version.
Riveters Tapes												
—	695	Yellow	Acrylic strip coated along tape edges only	Polyethylene	0.05 (2.0)	—	0.08 (3.0)	16 (15)	140 (8)	120	-29 to 49 (-20 to 120)	Yellow film. White adhesive.
Venting Tapes												
—	394	White	Acrylic	Non-Woven	0.11 (4.5)	—	0.13 (5.0)	13 (12)	100 (6)	18	Up to 49 (Up to 120)	Air-permeable backing.
—	3294	Pink	Acrylic	Non-Woven	0.11 (4.5)	—	0.13 (5.0)	10 (9)	140 (8)	15	Up to 49 (Up to 120)	Most permeable venting tape. Strip coated.
Nylon Tapes												
	855	White	Rubber	Nylon	0.05 (2.0)	—	0.08 (3.2)	60 (55)	540 (31)	470	16 to 204 (60 to 400)	Composite bonding tape.
	8555	White	Rubber	Nylon	0.13 (5.0)	—	0.15 (6.0)	66 (60)	1208 (69)	540	16 to 204 (60 to 400)	Thick version of 855 tape.
Long Term Protection												
	7070UV	Clear	Acrylic	Polyurethane	0.17 (6.5)	—	0.20 (8.0)	51 (47)	1162 (68)	656	-28 to 77 (-20 to 170)	Durable. Abrasion resistant. UV-resistant surface protection.
	7071UV	Clear	Acrylic	Polyurethane	0.31 (12)	—	0.36 (14)	52 (52)	963 (55)	754	-28 to 77 (-20 to 170)	Durable. Abrasion resistant. UV-resistant surface protection.
Other Specialty Tapes												
	346	Tan	Rubber	Flat Paper Stock	0.38 (15)	—	0.42 (17)	24 (22)	490 (28)	4	16 to 38 (60 to 100)	Heavy-duty abrasion. Moisture and UV protection.
	838	White	Acrylic	PVF	0.05 (2.1)	—	0.09 (3.4)	51 (47)	420 (24)	170	38 to 107 (100 to 225)	Weather-resistant film tape.
	5401	Tan	Silicone	Fiberglass Reinforced Silicone	0.20 (8.0)	—	0.24 (9.3)	13 (12)	3853 (220)	7	Up to 148 (Up to 300)	High coefficient of friction for traction.
	5461	White	Rubber	Silicone Rubber	0.19 (7.8)	Silicone-Paper	0.23 (9.1)	33 (30)	1500 (85)	165	Up to 93 (Up to 200)	High-friction roller tape.
	9343	Black	Acrylic	Non-Woven	0.37 (15)	Paper	0.50 (20)	30 (27)	88 (5)	400	Up to 121 (Up to 250)	Conformable for irregular parts.

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3M™ Glass Cloth Tapes

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Backing Thickness mm (mils)	Liner Type	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Temperature Use Range °C (°F)	Meets Specifications	Typical Use and Comments
	361	White	Silicone	Glass Cloth	0.13 (5.0)	—	0.16 (6.4)	42 (38)	2555 (146)	10	-54 to 232 (-65 to 450)	F.A.R. 25.853	General purpose glass cloth tape.
	3615	White	Silicone	Glass Cloth	0.13 (5.0)	—	0.18 (7.0)	38 (35)	3140 (180)	7	-54 to 232 (-65 to 450)	—	General purpose glass cloth tape.
	365	White	Thermoset Rubber	Glass Cloth	0.12 (4.8)	—	0.20 (8.3)	57 (52)	2430 (139)	7	4 to 232 (40 to 450)	—	Splicing textured surfaces. Thermosetting adhesive.
	3650	White	Thermoset Rubber	Glass Cloth	0.12 (4.8)	Blue Film	0.20 (8.3)	57 (52)	2430 (139)	7	4 to 232 (40 to 450)	—	Linered version of 365. Thermosetting tape.
	398FR	White	Acrylic	Glass Cloth	0.13 (5.0)	Blue Film	0.18 (7.0)	42 (38)	2276 (130)	7	-29 to 121 (-20 to 250)	BMS 5-146; F.A.R. 25.853(a); F.A.R. 25.855(d)	Skip-slit liner for ease of application.
	398FRP	White	Acrylic	Glass Cloth	0.13 (5.0)	Blue Film	0.18 (7.0)	42 (38)	2276 (130)	7	-29 to 121 (-20 to 250)	BMS 5-146; F.A.R. 25.853(a); F.A.R. 25.855(d)	Printed backing version of 398FR.

3M™ Metal Foil Tapes

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Backing Thickness mm (mils)	Liner Thickness mm (mils)	Liner Type	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Temperature Use Range °C (°F)	Meets Specifications	Typical Use and Comments
Premium Performance														
	425	Silver	Acrylic	Aluminum Foil	0.07 (2.8)	—	—	0.12 (4.6)	51 (47)	490 (28)	6	-54 to 149 (-65 to 300)	F.A.R. 25.853(a); UL 723; UL 746C; LT-80 C	Most versatile aluminum tape.
	427	Silver	Acrylic	Aluminum Foil	0.07 (2.8)	0.08 (3.1)	Easy Release Film	0.12 (4.6)	55 (50)	490 (28)	6	-54 to 149 (-65 to 300)	F.A.R. 25.853(a); UL 723; UL 746C; LT-80 C	Linered version of 425.
	431	Silver	Acrylic	Aluminum Foil	0.05 (1.9)	—	—	0.08 (3.1)	37.3 (34)	302 (17)	3	-54 to 149 (-65 to 300)	F.A.R. 25.853(a)	Conformable aluminum tape.
	433	Silver	Silicone	Aluminum Foil	0.05 (2.0)	—	—	0.09 (3.6)	43.8 (40)	350 (20)	3.5	-54 to 316 (-65 to 600)	F.A.R. 25.853(a); US Gov A-A-59258	Silicone adhesive for high temperature resistance. Smooth, easy unwind, clean, straight edges for minimal wrinkling.

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3M™ Metal Foil Tapes (continued)

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Backing Thickness mm (mils)	Liner Thickness mm (mils)	Liner Type	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Meets Specifications	Temperature Use Range °C (°F)	Typical Use and Comments
Premium Performance														
	433L	Silver	Silicone	Aluminum Foil	0.05 (2.0)	0.08 (3.2)	Easy Release Film	0.09 (3.5)	42.0 (38)	350 (20)	3.5	F.A.R. 25.853(a)	-40 to 316 (-65 to 600)	Linered version of 433.
	437	Silver	Acrylic	Aluminum Foil	0.07 (2.8)	0.11 (4.2)	Easy Release Film	0.20 (8.0)	164 (150)	525 (30)	8	—	-40 to 100 (-40 to 212)	Dead-soft, conformable aluminum foil tape with an aggressive adhesive.
	438	Silver	Acrylic	Aluminum Foil	0.13 (5.0)	—	—	0.18 (7.2)	47 (43)	1033 (59)	10	F.A.R. 25.853(a)	-54 to 149 (-65 to 300)	Thickest non-reinforced aluminum tape for heat resistance. Smooth, easy unwind, clean, straight edges with minimal wrinkling.
	438L	Silver	Acrylic	Aluminum Foil	0.13 (5.0)	2.5 (0.06)	Easy Release Film	0.18 (7.2)	47 (43)	1033 (59)	10	F.A.R. 25.853(a)	-54 to 149 (-65 to 300)	
	439	Silver	Acrylic	Aluminum Foil	0.05 (1.9)	0.14 (5.7)	Kraft Paper with Silicone Release	0.08 (3.1)	37.3 (34)	302 (17)	3	F.A.R. 25.853(a)	-54 to 149 (-65 to 300)	Linered version of 431.
Lead Foil														
	420	Dark Silver	Rubber	Lead Foil	0.13 (5.0)	0.09 (3.7)	Easy Release Film	0.19 (7.6)	49 (45)	350 (20)	12	—	-51 to 107 (-60 to 225)	Linered plating tape.
	421	Dark Silver	Rubber	Lead Foil	0.1 (4.0)	—	—	0.17 (6.6)	49 (45)	263 (15)	14	—	-51 to 107 (-60 to 225)	Self-wound plating tape
Specialty and Reinforced Foils														
	363	Silver	Silicone	Aluminum Foil Laminated to Glass Cloth	0.086 (3.4)	—	—	0.19 (7.3)	57 (52)	2364 (135)	7	F.A.R. 25.853(a)	-54 to 316 (-65 to 600)	Aluminum foil/glass cloth. Highest temperature metal foil tape.
	363L	Silver	Silicone	Aluminum Foil Laminated to Glass Cloth	0.086 (3.4)	0.08 (3.0)	Easy Release Film	0.19 (7.3)	57 (52)	2364 (135)	7	F.A.R. 25.853(a)	-54 to 316 (-65 to 600)	Linered version of 363.

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3M™ Sound Damping Foils

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Backing Thickness mm (mils)	Liner Type	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Temperature Use Range °C (°F)	Meets Specifications	Typical Use and Comments
	434	Silver	Viscoelastic Polymer	Aluminum Foil	0.14 (5.5)	Polyethylene	0.19 (7.5)	71.2 (65)	876 (50)	12	-60 to 20 (-76 to 68)	F.A.R. 25.853(a)	Low temperature, vibration damping.
	435	Silver	Viscoelastic Polymer	Aluminum Foil	0.2 (8.0)	Polyethylene	0.34 (14)	71.2 (65)	876 (50)	12	-60 to 20 (-76 to 68)	F.A.R. 25.853(a)	Low temperature, vibration damping.
	436	Silver	Viscoelastic Polymer	Aluminum Foil	0.31 (12)	Polyethylene	0.44 (18)	71.2 (65)	876 (50)	12	-60 to 20 (-76 to 68)	F.A.R. 25.853(a)	Low temperature, vibration damping.
	2552	Silver	Viscoelastic Polymer	Aluminum Foil	0.25 (10)	Polyethylene	0.38 (15)	72 (65)	2205 (126)	7	-32 to 80 (-25 to 175)	ASTM E756-83	General purpose, vibration damping.
	4014	Silver	Viscoelastic Polymer	Aluminum-Urethane	0.09 (3.0)	Easy Release Film	6.35 (250)	—	—	90	-70 to 30 (-94 to 86)	F.A.R. 25.853(a)	Foil/foam sheet laminate.

3M™ Polyester Tapes

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Backing Thickness mm (mils)	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Temperature Use Range °C (°F)	Typical Use and Comments
General Industrial Tapes											
	396	Transparent	Rubber	Polyester	0.04 (1.7)	0.10 (4.1)	153 (140)	753 (43)	140	4 to 93 (40 to 200)	Adhesion to low surface energy materials.
	850	Various	Acrylic	Polyester	0.02 (0.9)	0.05 (1.9)	33 (30)	491 (28)	120	-50 to 150 (-60 to 300)	Splicing, holding, sealing. Transparent, red, black, and white.
	853	Transparent	Acrylic	Polyester	0.03 (1.1)	0.06 (2.2)	50 (46)	434 (25)	83	-50 to 150 (-60 to 300)	L-T-100. F.A.R. 25.853(a).
—	8412	Transparent	Acrylic	Polyester	0.12 (4.7)	0.16 (6.3)	36 (33)	2450 (140)	180	-50 to 150 (-60 to 300)	Heavy-duty edge and hole reinforcing.
Protective Tapes											
	335	Pink	Rubber	Polyester	0.02 (0.9)	0.04 (1.5)	0.5 (13 g/in.)	455 (26)	115	4 to 65 (40 to 150)	Low tack protective tape.
	336	Transparent	Rubber	Polyester	0.02 (0.9)	0.04 (1.5)	0.5 (13 g/in.)	455 (26)	115	4 to 65 (40 to 150)	Low tack protective tape.
High Temperature Masking and Liner Splicing Tapes											
	875	Seafoam Green	Rubber	Polyester	0.03 (1.0)	0.052 (2.0)	37 (36)	590 (34)	105	140 to 204 (60 to 400)	High temperature, non-silicone composite bonding.
	876	Seafoam Green	Rubber	Polyester	0.05 (2.0)	0.078 (3.1)	36 (33)	1160 (66)	128	140 to 204 (60 to 400)	High temperature, non-silicone composite bonding.
	8402	Translucent Green	Silicone	Polyester	0.02 (0.9)	0.05 (1.9)	26 (24)	438 (25)	100	-50 to 218 (-60 to 425)	Adheres well to silicone.

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3M™ Polyester Tapes (continued)

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Backing Thickness mm (mils)	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Temperature Use Range °C (°F)	Typical Use and Comments
High Temperature Masking and Liner Splicing Tapes											
	8403/8403L	Translucent Green	Silicone	Polyester	0.04 (1.4)	0.06 (2.4)	29 (27)	806 (46)	150	-50 to 218 (-60 to 425)	Adheres well to silicone. 8403L is linered version.
	8901	Blue	Silicone	Polyester	0.02 (0.9)	0.06 (2.4)	31 (29)	455 (26)	115	-50 to 204 (-60 to 400)	High temperature coating.
	8902	Blue	Silicone	Polyester	0.05 (2.0)	0.08 (3.5)	40 (37)	805 (46)	100	-50 to 204 (-60 to 400)	High temperature coating.
	8905	Blue	Silicone	Polyester	0.12 (5.0)	0.17 (6.5)	28 (26)	1920 (110)	115	-50 to 204 (-60 to 400)	High temperature coating.
	8911	Transparent	Silicone	Polyester	0.02 (0.9)	0.05 (2.3)	29 (26)	440 (26)	110	-50 to 204 (-60 to 400)	High temperature label protection.
	8991/8991L	Blue	Silicone	Polyester	0.03 (1.0)	0.06 (2.4)	34 (31)	508 (29)	100	-50 to 204 (-60 to 400)	Thin tapes. Powder coat masking. High temperature applications. 8991L is linered version.
	8992/8992L	Green	Silicone	Polyester	0.05 (2.0)	0.08 (3.2)	48 (44)	998 (57)	148	-50 to 204 (-60 to 400)	Powder coat and anodized masking. High temperature applications. 8992L is linered version.
	8985L	Purple	Rubber	Polyester	0.076 (3.0)	0.099 (3.9)	25 (23)	1234 (70)	131	Up to 93 (Up to 200)	Anodized masking applications.
Photo Film Splicing Tapes											
—	8422	Black	Rubber	Polyester	0.04 (1.4)	0.06 (2.5)	54 (50)	754 (43)	140	-50 to 150 (-60 to 300)	Photo film splicing.
Reflective Tapes											
	850	Silver	Acrylic	Polyester	0.02 (0.9)	0.05 (1.9)	46 (42)	491 (28)	120	-50 to 150 (-60 to 300)	Splicing, holding, sealing, decorating, and silver color-coding.
—	8437	Silver	Acrylic	Polyester	0.02 (0.9)	0.05 (2.1)	44 (40)	350 (20)	70	4 to 93 (40 to 200)	Low emissivity.

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3M™ Gripping Materials

Tape Collection	Product Number	Color	Relative Durability 1–10	Relative Friction 1–10: Low–High		Relative Tactility 1–10	Thickness mm (mil) without liner	Weight g/m² (oz./yd²) without liner	Temperature Use Range °C (°F)	Relative Chemical Resistance 1–10	Relative UV Resistance 1–10
				Mated	Unmated						
Plain-backed: Washable nylon knit with moderate stretch for sew-on applications											
	GM640	Black	5	9	8	6	0.8 (33)	366 (10.7)	-40 to 71 (-40 to 160)	5	5
Adhesive-backed: 3M pressure sensitive acrylic for bonding to high and low surface energy materials											
	GM641	Black	5	9	8	6	0.8 (33)	440 (12.9)	-40 to 71 (-40 to 160)	5	5

3M™ UHMW-PE Tapes

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Backing Thickness mm (mils)	Liner Type	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Temperature Use Range °C (°F)	Typical Use and Comments
	5421	Transparent	Rubber	UHMW-PE	0.13 (5.0)	60# Densified Kraft Paper	0.17 (6.7)	28 (26)	526 (30)	275	-34 to 107 (-30 to 225)	General purpose tape to protect plastic nd metal chutes, guide rails, and containers from wear.
	5423	Transparent	Rubber	UHMW-PE	0.25 (10)	60# Densified Kraft Paper	0.30 (11.7)	28 (26)	963 (55)	300	-34 to 107 (-30 to 225)	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 (3.0)	55# Densified Kraft Paper	0.13 (5.0)	33 (30)	788 (45)	100	-34 to 107 (-30 to 225)	Solvent resistant adhesive with low coefficient of friction and abrasion resistance.
	5430	Transparent	Acrylic	UHMW-PE	0.13 (5.0)	55# Densified Kraft Paper	0.18 (7.0)	82 (75)	696 (40)	175	-34 to 107 (-30 to 225)	High tack adhesive.
	9325	Transparent	Acrylic	UHMW-PE	0.08 (3.0)	55# Densified Kraft Paper	0.13 (5.0)	55 (50)	696 (40)	175	-34 to 107 (-30 to 225)	Thin version of 5430 tape.

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3M™ Preservation Tapes

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Backing Thickness mm (mils)	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Temperature Use Range °C (°F)	Typical Use and Comments
	481	Black	Rubber	Polyethylene	0.20 (7.7)	0.25 (9.8)	28 (25)	260 (15)	510	-7 to 76 (20 to 170)	Preservation sealing tape. MIL-T-22085 Amend 3, Type IV. Clean removal up to 2 years.
	4811	White	Rubber	Polyethylene	0.18 (7.5)	0.24 (9.5)	36 (30)	260 (15)	490	Up to 77 (Up to 170)	Preservation sealing tape. Clean removal up to 1 year.

3M™ Polyethylene Tapes

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Backing Thickness mm (mils)	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Temperature Use Range °C (°F)	Typical Use and Comments
—	480	Transparent	Acrylic	Polyethylene	0.10 (4.0)	0.13 (5.1)	24 (22)	210 (12)	520	-7 to 76 (20 to 170)	Acrylic adhesive.
	483	Various	Rubber	Polyethylene	0.10 (3.9)	0.13 (5.1)	21 (18)	175 (10)	300	Up to 77 (Up to 170)	Available in black, blue, red, transparent, white, and yellow. MIL-STD 2041D (SH).

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3M™ Vinyl Tapes

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Backing Thickness mm (mils)	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Temperature Use Range °C (°F)	Typical Use and Comments
Premium Performance Vinyl Tapes											
	471	Various	Rubber	Vinyl	0.10 (4.1)	0.13 (5.2)	28 (26)	270 (14)	150	4 to 77 (40 to 170)	Conformable and clean removal. Black, blue, green, orange, red, transparent, white, and yellow. MIL-STD 2041D (SH).
	4712	Various	Rubber	Vinyl	0.10 (4.1)	0.13 (5.2)	25 (23)	270 (14)	150	4 to 77 (40 to 170)	Linered version of 471 tape. MIL-STD 2041D (SH). Colors same as 471.
	472	Black	Rubber	Vinyl	0.23 (9.0)	0.26 (10)	25 (23)	560 (32)	270	Up to 107 (Up to 225)	Abrasion and high temperature resistant.
	4735*	Orange	Rubber	Vinyl	—	0.137	10.4 (9.5)	245.2 (14)	130	149 (300)	Highly conformable and resists lifting.
—	971/971L	Yellow, White, Red, Blue, Orange and Green	Rubber	Vinyl	0.38 (15)	0.49 (19)	41 (38)	1190 (68)	250	Up to 49 (Up to 120)	Exceptional durability. Abrasion resistant. Clean removal.
General Purpose Vinyl Tapes											
—	764	Various	Rubber	Vinyl	0.10 (4.1)	0.13 (5.0)	21 (18)	228 (13)	180	15 to 27 (60 to 85)	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 (4.2)	0.14 (5.5)	21 (19)	260 (15)	170	4 to 77 (40 to 170)	Critical applications. Adhesive side printing for long-life.
—	5702	Black/Yellow	Rubber	Vinyl	0.11 (4.2)	0.14 (5.5)	21 (19)	260 (15)	170	4 to 77 (40 to 170)	Critical applications. Adhesive side printing for long-life.
—	766	Black/Yellow	Rubber	Vinyl	0.10 (4.1)	0.13 (5.0)	21 (18)	228 (13)	180	15 to 27 (60 to 85)	Non-critical marking applications.
—	767	Red/White	Rubber	Vinyl	0.10 (4.1)	0.13 (5.0)	21 (18)	228 (13)	180	15 to 27 (60 to 85)	Non-critical marking applications.
Electroplating and Anodizing Tapes											
	470	Tan	Rubber	Vinyl	0.16 (6.3)	0.18 (7.1)	40 (37)	350 (20)	180	Up to 77 (Up to 170)	Conformable and abrasion resistant for masking various surfaces during electroplating and anodizing.

*Scotch® Tape brand.

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3M™ Masking Tapes

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Temperature Resistance °C (°F)	Typical Use and Comments
3M™ Fine Line Tapes										
	218	Green	Rubber	Poly-propylene	0.13 (5)	41 (37)	228 (13)	720	121 (250)	Good for long, straight lines.
	4737	Blue	Rubber	Vinyl	0.13 (5.1)	16 (15)	280 (16)	75	149 (300)	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 (5.3)	38 (35)	245 (14)	191	121 (250)	Superior conformability. Sharp paint lines. Clean removal.
	2800	Blue	Acrylic	Polyolefin	0.105 (4.1)	18 (16)	437 (25)	1000	149 (300)	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										
	101+	Tan	Rubber	Crepe Paper	0.13 (5.1)	37.2 (34)	385.3 (22)	9	66 (150)	Indoor use. Light-duty applications.
	201+	Tan	Rubber	Crepe Paper	0.11 (4.4)	27 (25)	333 (19)	8	93 (200)	General indoor use. Light-to-medium duty. Clean removal.
	301+	Yellow	Rubber	Crepe Paper	0.14 (5.4)	36 (33)	350 (20)	11	107 (225)	Good conformability to irregular surfaces. Good paint lines.
	401+	Green	Natural/ Synthetic Rubber Blend	Crepe Paper	0.16 (6.4)	38 (35)	420 (24)	14	121 (250)	Highly conformable to many surfaces. Superior adhesion to metal, rubber, glass and plastic. Great paint lines.
	501+	Purple	Rubber	Crepe Paper	0.185 (7.3)	41 (37)	542 (31)	11	149 (300)	Exceptionally conformable to irregular surfaces. Superior adhesion to metal, rubber, glass and plastic. Removes cleanly in one piece with no residue. Great paint lines.
	UV Resistant Green Masking Tape	Green	Rubber	Crepe Paper	0.12 (4.8)	27 (25)	315 (18)	15	79 (175)	Designed for outdoor applications, including paint masking, bundling, surface protection and temporary holding. Offers UV resistance for up to 14 days.
	203	Tan	Rubber	Crepe Paper	0.12 (4.7)	32 (29)	385 (22)	9	93 (200)	General purpose masking tape for holding, bundling, sealing and more.
	2460	Gold	Acrylic	Washi Paper	0.08 (3.3)	8.8 (8)	315 (18)	6	149 (300)	For paint bake operations at temperatures up to 300°F (149°C). 21 days outdoor.

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3M™ Masking Tapes (continued)

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Temperature Resistance °C (°F)	Typical Use and Comments
3M™ Crepe Masking Tapes (continued)										
	231	Tan	Rubber	Crepe Paper	0.19 (7.6)	42 (38)	490 (28)	10	149 (300)	All-purpose paint masking tape for aerospace and other industrial OEM paint applications.
	2364	Tan	Natural/ Synthetic Rubber Blend	Crepe Paper	0.165 (6.5)	34 (31)	420 (24)	10	149 (300)	High temperature, crepe paper masking tape for general masking application. Good holding power.
	2380	Tan	Natural/ Synthetic Rubber Blend	Crepe Paper	0.182 (7.2)	43 (39)	490 (28)	10	163 (325)	High temperature. Best holding to widest variety of surfaces.
	2693	Tan	Synthetic Rubber	Crepe Paper	0.2 (7.9)	44 (40)	507 (29)	10	163 (325)	Very aggressive holding. Excellent for multi-bake paint cycles.
	213	Tan	Rubber	Crepe Paper	0.152 (6)	37 (34)	472 (27)	10	177 (350)	Good on anodized aluminum.

3M™ Duct Tapes

Tape Collection	Product Number	Color	Adhesive Type	Backing Material	Total Thickness mm (mils)	Adhesion to Steel N/100 mm (oz./in.)	Tensile Strength N/100 mm (lb./in.)	Elongation at Break %	Temperature Resistance °C (°F)	Typical Use and Comments
	8979	Slate Blue	Rubber	Polyethylene	0.29 (11.5)	62 (57)	639 (36.5)	17	93 (200)	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 (8)	81 (74)	420.3 (24)	19	—	Light duty holding and bundling applications for a wide variety of materials and substrates.
	3939	Silver	Rubber	Polyethylene film over cloth scrim	0.22 (8.6)	63.5 (58)	472.8 (27)	17	93 (200)	Clean removal up to one month. Holds up to one year indoors without deteriorating.
	6969	Black, Olive and Silver	Rubber	Polyethylene film over cloth scrim	0.25 (10)	55.8 (51)	595.4 (34)	16	93 (200)	Industrial grade duct tape, thick adhesive layer sticks to rough surfaces.

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3M™ Tape Applicators

	Applicator	Max Width	Compatible Tapes
Floor Marking Applicator			
	3M™ Lane Marking Applicator M-1	101 mm (4 in.)	471, 5700, 5702, 971, 764, 766, 767
Stretch Film Hand Dispenser			
	Scotch® Stretchable Tape Dispenser H38	38 mm (1.5 in.)	8886
L-Clip Box Sealers			
	Scotch® Filament Tape Box Sealer S634	18 mm (0.70 in.)	893, 897, 898, 8934, 8981
	3M-Matic™ L-Clip Applicator S-867	36 mm (1.4 in.)	893, 897, 898, 8934, 8981
	3M-Matic™ Dual L-Clip Applicator S867 II	36 mm (1.4 in.)	893, 897, 898, 8934, 8981

	Applicator	Max Width	Compatible Tapes
Definite Length Dispensers			
	Scotch® Definite Length Dispenser M96	25 mm (1 in.)	Most single-coated tapes
Hand Applicators for Filament Tapes			
	Scotch® Filament Tape Hand Dispenser H10	24 mm (0.95 in.)	8934, 897, 893, 898, 8959, 8915, 890MSR, 8919MSR, 8896 Blue, 8896 Ivory
	Scotch® Filament Tape Hand Dispenser H130	18 mm (0.70 in.)	8934, 897, 893, 898, 8915, 890MSR, 8919MSR, 8896 Blue, 8896 Ivory
Paint Masking Applicators			
	3M™ Adjustable Masking Applicator ACR21	19 mm (0.75 in.)	2800, 4737, 4735, 471+, 218
	3M™ Adjustable Masking Applicator ACL21	19 mm (0.75 in.)	2800, 4737, 4735, 471+, 218
	3M™ Adjustable Masking Applicator DDR21	19 mm (0.75 in.)	2800, 4737, 4735, 471+, 218
	3M™ Adjustable Masking Applicator DDL21	19 mm (0.75 in.)	2800, 4737, 4735, 471+, 218

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AV011510250