

**3M** Science.  
Applied to Life.™

3M Industrial Adhesives and Tapes

# 3M™ Specialty Tape Solutions.

Meeting application  
challenges for aerospace,  
automotive, MRO and more...

# Protect and enhance

## 3M™ Aluminium Foil Tape 425



### Key characteristics

- ▶ High thermal conductivity enhances heating or cooling efficiency
- ▶ High heat reflectivity and flame resistance protects temperature sensitive materials against heat and flame damage and hot spots
- ▶ Reflects light
- ▶ Seals and protects against moisture, solvents and dust
- ▶ Resists outdoor weathering and UV degradation for long term performance

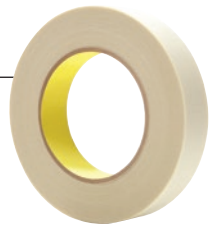
### Use for

- ▶ Heat shielding of delicate parts
- ▶ Aircraft chemical paint strip masking
- ▶ Refrigerator and freezer copper coil attachment
- ▶ Reflective layer for lighting
- ▶ Sealing out air and moisture

### Technical parameters

Adhesive	Acrylic (transparent)
Backing	Aluminium (dead soft)
Backing thickness	0.07mm
Total thickness	0.12mm
Temperature use range	-54°C to 149°C

## 3M™ Glass Cloth Tape 361



### Key characteristics

- ▶ High temperature resistance
- ▶ Very high tensile strength
- ▶ Protects surfaces against abrasion
- ▶ Protects against high temperature to pass FAA flame resistance regulations
- ▶ Meets F.A.R. 25.853 specification

### Use for

- ▶ Splicing of fabrics and textured surfaces
- ▶ Aerospace panel sealing
- ▶ Welding backup
- ▶ Wire harness protection

### Technical parameters

Adhesive	Silicone
Backing	Glass cloth
Backing thickness	0.14mm
Total thickness	0.19mm
Temperature use range	-54°C to 232°C

## 3M™ Polyester Tape 850



### Key characteristics

- ▶ Thin calliper, high tensile strength and elongation at break for reliable butt and other splices
- ▶ Seals, protects and reinforces
- ▶ Colour code or decorate with long term holding
- ▶ Maintains colour after long-term aging
- ▶ Transparent option for virtually invisible splices

### Use for

- ▶ Film splicing
- ▶ Defect marking
- ▶ Edge reinforcement
- ▶ Sealing

### Technical parameters

Adhesive	Acrylic
Backing	Polyester
Backing thickness	0.02mm
Total thickness	0.05mm
Temperature use range	-50°C to 150°C



# Reduce friction, increase efficiency

## 3M™ PTFE Film Tape 5490



### Key characteristics

- ▶ Slippery, low energy surface for smoother material movement
- ▶ High temperature resistance
- ▶ Chemical resistant
- ▶ Conformable
- ▶ Protects surfaces
- ▶ Non-stick backing

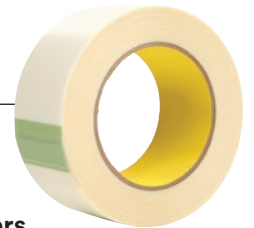
### Use for

- ▶ Wrapping web rollers to reduce friction
- ▶ Covering web former edges to minimise friction during folding
- ▶ Noise reduction of parts where surfaces rub together
- ▶ Increasing wear life of parts
- ▶ Providing excellent mould release in composite bonding

### Technical parameters

Adhesive	Silicone
Backing	PTFE
Backing thickness	0.05mm
Total thickness	0.09mm
Temperature use range	-54°C to 260°C

## 3M™ UHMW-PE Tape 5423



### Key characteristics

- ▶ Excellent abrasion resistance provides long wear life
- ▶ Low coefficient of friction
- ▶ Effective solution for noise and vibration problems
- ▶ Chemical resistant backing
- ▶ Anti-stick/release properties

### Use for

- ▶ Reducing squeaks and rattles in automotive and transportation assemblies
- ▶ Lining of conveyors, chutes, blades, slides and guide rails
- ▶ Noise reduction in escalators and elevators
- ▶ Separating dissimilar parts to reduce noise and friction

### Technical parameters

Adhesive	Rubber
Backing	UHMW-PE
Backing thickness	0.25mm
Total thickness	0.30mm
Temperature use range	-34°C to 107°C

## 3M™ Vinyl Tape 471



### Key characteristics

- ▶ “Colour throughout” resists scrapes, wear and weathering
- ▶ Clean removal
- ▶ Extreme conformability and dead stretch means tape stays locked in place
- ▶ Chemical resistant
- ▶ Comes in a variety of colours

### Use for

- ▶ Durable marking of aisles and corridors in factories, warehouses, hospitals and retail spaces
- ▶ Marking of safety hazards on walls, stairs and pipes
- ▶ Fine line paint masking
- ▶ Sealing
- ▶ High visibility splicing
- ▶ Decorative trim
- ▶ Surface protection

### Technical parameters

Adhesive	Synthetic rubber
Backing	Vinyl
Backing thickness	0.10mm
Total thickness	0.13mm
Temperature use range	4°C to 77°C



\* To meet your safety requirements, consider 3M™ Safety Stripe Tapes 5700 and 5702





# Starter pack

## 3M™ Vinyl Tape 5S Colour Coding



Convenient pack of colour coding vinyl tapes to help implement the 5S system by providing floor marking and safety identification.

When compared to painting, 3M™ Vinyl Tapes and 3M™ Safety Stripe Tapes are easy to apply requiring minimal downtime of production area thus increasing staff productivity.

Durable vinyl backing resists abrasion, scuffing, moisture, weathering acids and alkaline chemicals for long service life.

Ease of application and removal: 3M pressure-sensitive rubber adhesive sticks on contact to just about any surface for fast application with no dripping, drying, or clean-up.

Resists lifting: Flexible construction stretches and conforms to curved surfaces and around corners for a reliable tight fit.



## 5 steps in the 5S system:

- ▶ **Sort:** retain only the items and procedures necessary to do the job.
- ▶ **Straighten:** ensure each item is kept in a designated place.
- ▶ **Shine:** maintain clean and organised spaces.
- ▶ **Standardise:** define standards for workspaces and procedures.
- ▶ **Sustain:** keep up with established standards and procedures.

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