3M

Specialty Tape Solutions

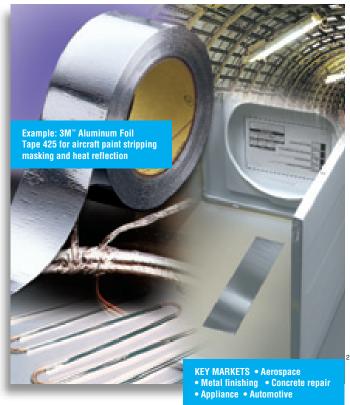
Bringing better ideas to the surface with metal foil, vinyl, polyester, and specialized tapes



Resist, conduct, reflect, protect, mark, mask, repel, color-code, s



3M[™] Metal Foil Tapes – choice of conformable high performance backings



Typical Applications

- Aircraft paint stripping Metal plating masking
- Dust/moisture cover Heat-resistant wiring harness
- · Sound and vibration damping
- Enhance cooling efficiency of copper refrigeration coils
- Electronic, appliance, transportation and manufacturing equipment.

3M™ Aluminum Foil Tapes

- Resist flame, moisture, weather, UV degradation, and most chemicals
- Thermally conductive for heating/cooling efficiency

3M[™] Lead Foil Tapes

- · Electrically conductive
- Acid resistant for plating
- Radiopaque for X-ray markers

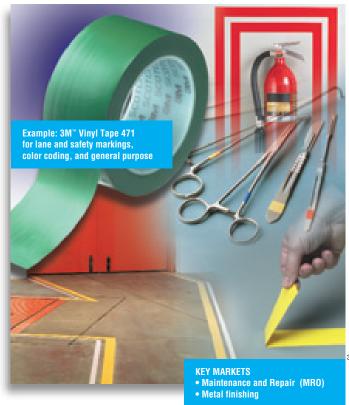
3M[™] Aluminum Foil Reinforced Tapes

- Flexible flame-resistant wrap for wires and hoses
- Tear and puncture resistant

3M™ Damping Foil Tapes

- Viscoelastic polymer with aluminum constraining layer to help quiet metal and plastic
- Self-fixturing

3M[™] Vinyl Tapes – locked-in color and aggressive adhesive that removes cleanly



Typical Applications

- Mark and identify lanes, hazards, and safety equipment
- Color code piping, tools, instruments, and more.
- Seal riveted seams Add decorative trim Electroplate masking
- Fine line paint masking

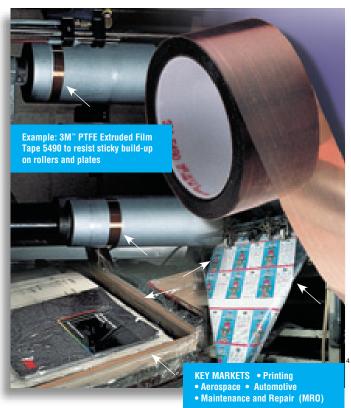
Typical Characteristics

- "Color-throughout" construction that resists scrapes, wear, weathering, and chemicals
- Black, blue, brown, green, orange, red, white, purple, yellow, and transparent
- Aggressive pressure sensitive adhesive bonds and seals to most surfaces on contact
- Easy, clean removal for temporary applications
- Readily stretch, mold, form, press, or cut to fit
- Conforms to irregular surfaces
- · Provides sharp masking edge

lide, cover, and quiet.



3M[™] Slick Surface Tapes – low coefficients of friction with choice of other characteristics



Typical Applications

- Protect plastic contact bar under hot wire in shrink wrapping
- Wrap web rollers for smoother material movement; cover web former edge to minimize friction during folding
- "Slip plane" between dissimilar surfaces to help reduce noise
- · Masking and bundling in composite part manufacturing

3M™ PTFE Tapes:

- Self-lubricating to help improve web material processing
- Resists up to 400°F (204°C)
- Anti-stick for ready release and clean-up of even hot plastic
- Conforms for a chemicalresistant barrier
- Available in glass cloth and skived or extruded films

3M™ UHMW-PE Tapes

- Abrasion resistant to protect chutes from wear
- "Slip plane" effect between surfaces to reduce noise
- Anti-stick for ready release and clean-up of various inks, adhesives, and sealants
- Available in film and film/foam

3M[™] Polyester Tapes – thin caliper with long-term high dimensional strength



Typical Applications

- Stripping positives or negatives in graphics arts pre-press
- Splicing silicone-treated papers Powder coat paint masking
- Gold finger masking in PCB plating De-taping
- High temperature coating Edge and hole reinforcing
- Thin caliper butt splicing Add low profile decorative trim

Typical Characteristics

- Choice of backing calipers from as thin as 0.9 mil up to 5 mils
- Choice of tensile strength ranging from 20 lbs./in. (1 mil backing) to 127 lbs./in. (5 mils backing)
- Choice of pressure sensitive acrylic, rubber, silicone, and S/R blend adhesives to meet
- specific requirements. For example, acrylic for long term holding and clarity; silicone for high temperature performance and clean removal; speciallyformulated rubber for resistance to plating chemicals
- Polyester backings perform reliably exposed to 350° F (177°C) for one hour

Variety of other 3M[™] Tapes for process and design solutions



Typical Applications

Wide variety from glass cloth tape for fabric splicing to adhesive-less PTFE tape for pipe thread sealing. See specific tapes at right for typical applications and characteristics.

3M™ Glass Cloth Tapes

- Typical applications: thermal spray masking; splicing fabric and other textured surfaces; aircraft cargo hold seaming and sealing
- Tensile strength up to 190 lbs./in. and 7x higher than typical polyester tapes
- Temperature resistance up to more than 400°F (204°C) for one hour – even higher for intermittent exposures
- Passes FAA flame resistance regulations

3M™ Riveting Tapes

- Hold rivets during bucking without trapping
- Choice of 1.0 mil polyester with rubber adhesive, or 2 mil polyethylene with acrylic adhesive

3M™ Venting Tapes

 Acrylic adhesive and nonwoven, air-permeable backing holds foam-in place insulation inside doors and appliances

3M™ Lithographer's Tape

- Ruby red transparent UPVC backing is visually translucent, yet photographically opaque for lithographic stripping
- Rubber adhesive is long aging and transfer-resistant

3M[™] Specialty Tapes

- Unique backings and adhesives for a wide range of applications and characteristics such as the following and more:
 - Silicone butt splicing
 - Tedlar® Film backing for weather resistance
 - Silicone rubber backing for high friction rollers
 - Adhesive-less PTFE tape for pipe thread sealing

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