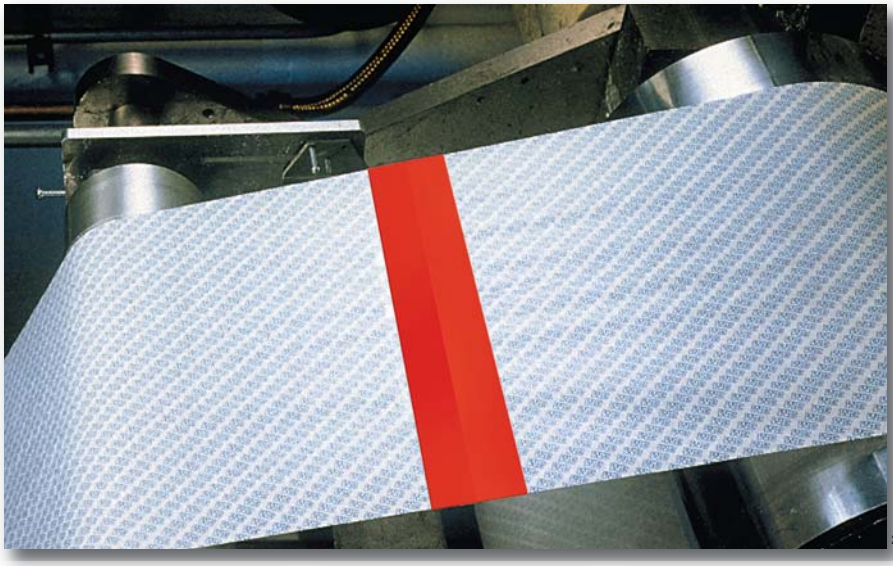
3M™ Polyester Tapes

Thin caliper with long-term high dimensional strength

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

- Backing calipers from as thin as 0.9 mil up to 5 mils, all with very high dimensional strength
- Tensile strengths ranging from 20 lbs./in. (0.9 mil) to 150 lbs./in. (5 mils) – some of the strongest backings available
- Pressure sensitive acrylic, rubber, silicone, and S/R blend adhesives to meet specific requirements. For example, acrylic with transparent backing for clarity and long-term holding; silicone for high temperatures and clean removal; rubber for plating chemical resistance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For marking splice location, 3M™ Polyester Tape 850 is available in red, black, white, silver, and gold. Transparent is also available to blend with the web stock. Pressure sensitive acrylic adhesive grabs on contact and holds butt splices securely. High tensile strength backing resists web handling stresses.


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For butt splices on many low surface energy materials such as polyethylene. 3M™ Super Bond Film Tape 396 provides the thin caliper, and tensile strength of polyester and high immediate adhesion and holding strength of rubber adhesive.


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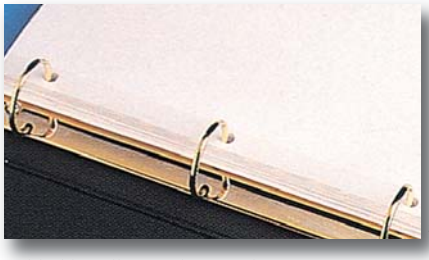
For powder coat paint masking, 3M™ Polyester Tape series 8900 provides popular choices with clean removing high temperature silicone adhesives and different backing thicknesses of tough non-slivering polyester.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With thin caliper and tear resistance, 3M™ Polyester Tape provides tough low-profile reinforcement for punch holes in card stock. Acrylic adhesive resists yellowing in long-term use.


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With thin caliper, high tensile strength polyester backing and the excellent shear strength of silicone adhesive, 3M™ Polyester Tape 8402 works well for butt splicing silicone-treated papers.

Product Information:

Product/ Color	Tape Structure (Backing/Adhesive)	Backing Thickness mils (mm)	Total Thickness mils (mm)	Adhesion to Steel oz./in. (N/100 mm)	Tensile Strength lbs./in. (N/100 mm)	Elongation at Break %	Temperature Range °F (°C)	Comments
ASTM Test Method:		D-3652	D-3652	D-3330	D-3759	D-3759		
General Industrial Tapes								
396/Transparent	Polyester/Rubber	1.4 (0.04)	4.1 (0.10)	170 (190)	43 (753)	140	40 to 200°F (4 to 93°C)	Adhesion to low energy surfaces.
850/Transparent	Polyester/Acrylic	0.9 (0.02)	1.9 (0.05)	30 (33)	25 (440)	120	-60 to 300°F (-50 to 150°C)	Splicing, holding, sealing, highly transparent.[3]
850/White/Red/Blk	Polyester/Acrylic	0.9 (0.02)	1.9 (0.05)	30 (33)	28 (491)	120	-60 to 300°F (-50 to 150°C)	Splicing, holding, decorating, color-coding, sealing.
853/Transparent	Polyester/Acrylic	0.9 (0.02)	1.9 (0.05)	48 (52)	24 (421)	102	-60 to 300°F (-50 to 150°C)	Solvent resistant adhesive.[1, 2, 3]
Protective Tapes								
335/Pink	Polyester Film/Rubber	0.9 (0.02)	1.5 (0.04)	0.4 (.5)	26 (455)	115	-60 to 150°F (-50 to 66°C)	Low tack protective tape.
336/Transparent	Polyester Film/Rubber	0.9 (0.02)	1.5 (0.04)	0.4 (.5)	26 (455)	115	-60 to 150°F (-50 to 66°C)	Low tack protective tape.
Release Surface and Liner Splicing Tapes								
8401/Translucent Cream	Polyester/Silicone with Rubber	1.0 (0.03)	1.9 (0.05)	22 (24)	34 (595)	100	-60 to 300°F (-50 to 150°C)	Splicing many release coated papers.
8402/Green	Polyester/Silicone	0.9 (0.02)	1.8 (0.05)	24 (26)	33 (578)	120	-60 to 425°F (-50 to 218°C)	Adheres well to silicone.
8403/Green	Polyester/Silicone	1.5 (0.04)	2.3 (0.06)	27 (30)	44 (772)	150	-60 to 425°F (-50 to 218°C)	Adheres well to silicone.
8901/Blue	Polyester/Silicone	0.9 (0.02)	2.6 (0.06)	32 (35)	28 (490)	115	-60 to 400°F (-50 to 204°C)	High temperature coating.
8902/Blue	Polyester/Silicone	2.0 (0.05)	3.4 (0.09)	40 (44)	53 (928)	130	-60 to 400°F (-50 to 204°C)	High temperature coating.
8905/Blue	Polyester/Silicone	5.0 (0.13)	6.5 (0.17)	43 (47)	150 (2627)	130	-60 to 400°F (-50 to 204°C)	High temperature coating.
8911/Transparent	Polyester/Silicone	1.0 (0.03)	2.7 (0.07)	30 (33)	30 (525)	100	-60 to 400°F (-50 to 204°C)	High temperature label protection.
8951/Blue	Polyester/Silicone	1.0 (0.03)	2.7 (0.07)	30 (33)	30 (525)	100	-60 to 425°F (-50 to 218°C)	High temperature applications.
8952/8952L/Blue	Polyester/Silicone	2.0 (0.05)	3.5 (0.09)	40 (44)	55 (963)	110	-60 to 425°F (-50 to 218°C)	High temperature applications.
8992/8992L/Green	Polyester/Silicone	2.0 (0.05)	3.3 (0.08)	33 (36)	48 (840)	83	-60 to 400°F (-50 to 204°C)	Powder coat masking, economical high temperature applications.
Photo Film Splicing Tapes								
8421/White	Polyester/Rubber	1.4 (0.04)	2.5 (0.06)	50 (55)	43 (753)	140	-60 to 300°F (-50 to 150°C)	Photo film splicing.
8422/Black	Polyester/Rubber	1.4 (0.04)	2.5 (0.06)	50 (55)	43 (753)	140	-60 to 300°F (-50 to 150°C)	Photo film splicing.
8429/Yellow	Polyester/Rubber	2.0 (0.05)	3.2 (0.08)	69 (76)	54 (945)	130	-60 to 300°F (-50 to 150°C)	Photo film splicing.
Reflective Tapes								
630/Silver	Metallic Polyester/ Rubber	1.0 (0.03)	3.7 (0.09)	145 (160)	29 (508)	120	40 to 200°F (4 to 93°C)	High tack splicing.
850/Silver/Gold	Metallic Polyester/ Acrylic	0.9 (0.02)	1.9 (0.05)	42 (46)	28 (491)	120	-60 to 300°F (50 to 150°C)	Splicing, holding, sealing, decorating, color-coding.
8437/Silver	Metallic Polyester/ Acrylic	0.9 (0.02)	2.0 (0.05)	40 (44)	20 (350)	70	40 to 200°F (4 to 93°C)	Low emissivity.

[1]L-T-100B [2]A-A-59298 [3]F.A.R. 25.853 (a) Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.