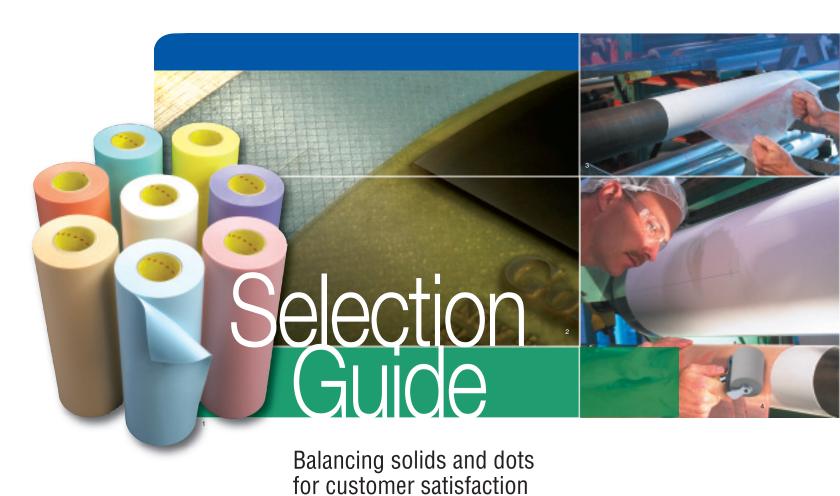
3M[™] Flexographic Plate Mounting Systems



QUALITY DISCOUNT PRESS PARTS & EQUIPMENT, Inc. 6088 Reega Ave, Egg Harbor Township, NJ 08234

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Wide choice of adhesives,

For halftone work where dot gain is a concern, a softer tape optimizes reproduction. When solids and dots share the plate, a combination tape can properly balance the result. When your customer requires solid ink and crisp lines, you'll want a firm, high density mounting tape.

From the wide 3M selection, you can find the adhesives, foams, and thicknesses for the print quality that customers demand and expect. You'll also find choices to meet your handling requirements for:

- Mounting ease and positioning accuracy
- Easy, clean removal from plate and cylinder

foams, and thickness for

Solid Printing

400 Series Tapes: Solid



18 Series: Firm



E-Series Tapes with Easy Mount Adhesive

On easy with reduced air entrapment

Unlike flat or pebbled liners, E-Series liners are crosshatched. This imprints unique microchannels into the adhesive that allow air to flow throughout the adhesive. Air bubbles disappear from between the tape and plate, and between the tape and cylinder or sleeve for virtually bubble-free mounting. Setup is faster with smoother surfaces for cleaner print quality and higher productivity.

Stays on with reduced edge-lifting

Exclusive 3M plate-side adhesive maintains tight contact. Saves the prep time, downtime, and labor of sealing plate edges.

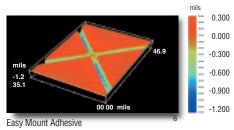
Peels off easily to reduce plate damage

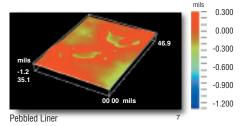
Peels off so easily you can virtually eliminate plate back treatment. You're less likely to damage plates, so you save time, labor, and money.

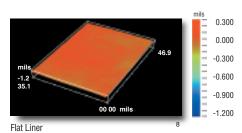
Bubble-free print quality

- Prevent blemishes in screen and process printing
- Help assure proper registration

Microscopic view of adhesive surface measured with interferometer









10% MIDTONE











Uniform coverage of solids when halftone dot reproduction is not critical.

447DL 411DL, 413DL 412DL, 414DL When plate contains mostly solids in a combination of solid and halftone images.

E1815, E1815H, 1815M

E1820, E1820H, 1820M

E1840, E1840H E1860, E1860H

EH-Series Adhesive to hold the edge on small diameter cylinders

3M EH-Series Tapes combine the air-release of 3M E-Series Tapes with higher plate side adhesion to resist edge lifting on cylinder diameters as small as 2".

the results your customers demand

Process Combination Printing Printing 17 Series: 15 Series: 10 Series: 13 Series: 19 Series: 12 Series: 11 Series: Medium Firm Medium Standard Medium Soft Light Medium Light Process When plate For high speed When solid and For high speed Improved tone Low density Low density printing of contains slightly printing with fine type halftone areas are reproduction at high maximizes dot maximizes dot combination work more solids in a speed when process reproduction for reproduction for reverses and equally important. combination expanded color when halftone and halftone images high speed process high quality process of solid and gamut. areas exceed solid. predominate. and screen printing. work and screen halftone images. printing. E1715, E1715H E1915, E1915H, E1115, E1115H, E1515, E1515H E1015, E1015H, 1015, E1315, E1315H E1215, E1215H 1015M E1320, E1320H E1915S, E1915HS 1115 E1520, E1520H E1720, E1720H, E1220, E1220H 1915M 1720M E1020, E1020H, 1020, E1120, E1120H, 1020M, 1020R E1920, E1920H, 1120, 1120K E1920S, E1920HS, E1040, E1040H, 1040 1920M, 1920S E1060, E1060H, 1060

3M™ Flexographic Plate Mounting Systems Selection Guide

	Product Number	Application Thickness	Manufactured Target Thickness	Description	Plates	Cylinders	Color	Features
	Number	Inches (mm)	Inches (mm)					
	400 Series 3M™ F	lexomount™ Sol	lid Printing Tapes					
es	411DL, 411	0.015 (0.38)	0.015 (0.38)	Gray double coated tape	P/R	SS/SL	Gray	Gray vinyl tapes with high adhesion.
J Tap	412DL, 412	0.020 (0.51)	0.020 (0.51)	with a soft rubber adhesive on each side of a vinyl	P/R	SS/SL	Gray	Helps reduce edge lifting.
3M™Solid Printing Tapes	447DL, 447	0.010 (0.25)	0.010 (0.25)	carrier. Available in single and double liner.	P/R	SS/SL	Gray	Helps minimize pin holing on solid work.
Solid	413DL	0.015 (0.38)	0.015 (0.38)	Black double coated tape	P/R	SS/SL	Black	Black vinyl - lower adhesion.
3M™S	414DL	0.020 (0.51)	0.020 (0.51)	with a firm rubber adhesive on each side of a vinyl carrier. Available only in double liner.	P/R	SS/SL	Black	Higher temperature and solvent resistance. Helps minimize pin holing on solids.
								Theips minimize pin holling on solids.
	18 Series 3M™ Cu	ishion-Mount™	Plus Firm Combi	nation Printing Tapes	I			
	E1815H, E1815, 1815M	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on each side of a foam carrier,	P	SS/SL	Blue	Better solid ink density than the standard combination printing tapes.
	E1820H, E1820, 1820M	0.020 (0.51)	0.022 (0.56)	protected by a release liner on one side.	Р	SS/SL	Blue	Clean removal from plate and print cylinder.
	E1840, E1840H	0.040 (1.02)	0.042 (1.07)		P	SS/SL	Blue	
	E1860, E1860H	0.060 (1.52)	0.062 (1.57)	 n Combination Printing T	P	SS/SL	Blue	
	E1715H, E1715		0.017 (0.43)		P P	SS/SL	Tool	Quality regults when plate contains
_		0.015 (0.38)	` '	Differential acrylate adhesive system on each side of a	·		Teal	Quality results when plate contains slightly more solids in a combination
	E1720H, E1720, 1720M	0.020 (0.51)	0.022 (0.56)	foam carrier, protected by a release liner on one side.	Р	SS/SL	Teal	of solid and halftone images.
				nbination Printing Tapes	I			
	E1515, E1515H	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on each side of a	Р	SS/SL	Purple	High quality, medium combination print.
	E1520, E1520H	0.020 (0.51)	0.022 (0.56)	foam carrier, protected by a release liner on one side.	Р	SS/SL	Purple	Adhesive removes cleanly from the print plate and the print cylinder.
S	10 Series 3M™ Cus	shion-Mount™ l	Plus Standard Cor	nbination Printing Tapes				
ng Tapo	E1015H, E1015, 1015, 1015M	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on each side of a	Р	SS/SL	White	Most versatile 3M™ Cushion-Mount™ Plus Tapes.
"Combination Printing Tapes	E1015-15H, E1015-15, 1015-15	0.015 (0.38)	0.015 (0.38)	foam carrier, protected by a release liner on one side.	Р	SS/SL	White	Effectively prints most types of flexographic printing.
oinatio	E1020H, E1020, 1020, 1020M	0.020 (0.51)	0.022 (0.56)		Р	SS/SL	White	
Somi	1020R	0.020 (0.51)	0.022 (0.56)		P/R	SS/SL	White	
3M™(E1020-20H, E1020-20, 1020-20	0.020 (0.51)	0.020 (0.51)		Р	SS/SL	White	
	E1040H, E1040, 1040	0.040 (1.02)	0.042 (1.07)		Р	SS/SL	White	
	E1060H, E1060, 1060	0.060 (1.52)	0.062 (1.57)		Р	SS/SL	White	
				nbination Printing Tapes				
	E1315H, E1315	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on each side of a	Р	SS/SL	Yellow	High quality, medium-soft combination print.
	E1320H, E1320	0.020 (0.51)	0.022 (0.56)	foam carrier, protected by a release liner on one side.	Р	SS/SL	Yellow	Adhesive removes cleanly from the print plate and the print cylinder.
	19 Series 3M™ Cu	shion-Mount™	Plus Soft Combine	ation Printing Tapes				
	E1915, E1915H, 1915M	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on each side of a	Р	SS/SL	Pink	Soft support improves tone reduction when process and
	E1915HS, E1915S	0.015 (0.38)	0.017 (0.43)	foam carrier, protected by a release liner on one side.	Р	SL	Pink	halftone images predominate.
	E1920H, E1920, 1920M	0.020 (0.51)	0.022 (0.56)		Р	SS/SL	Pink	
	E1920S, 1920S, E1920HS	0.020 (0.51)	0.022 (0.56)		Р	SL	Pink	

DL - Double Liner E - Air Release Standard Plate Side Adhesion EH - Air Release High Plate Side Adhesion M - Modified Plate Side Adhesion P - Photopolymer Plates R - For Rubber Plates S - High Adhesion on Cylinder/Sleeve Side SL - Sleeve SS - Stainless Steel Cylinder

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

3M™ Flexographic Plate Mounting Systems Selection Guide (continued)

	Product Number	Application Thickness Inches (mm)	Manufactured Target Thickness Inches (mm)	Description	Plates	Cylinders	Color	Features			
=	12 Series 3M™ Cushion-Mount™ Plus Light Combination Printing Tapes										
(cont.)	E1215H, E1215	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on	Р	SS/SL	Orange	High quality, light combination print.			
3M™Comb. Tapes (E1220H, E1220	0.020 (0.51)	0.022 (0.56)	each side of a foam carrier, protected by a release liner on one side.	Р	SS/SL	Orange	Adhesive removes cleanly from the print plate and the print cylinder. Air release on both adhesive surfaces.			
	11 Series 3M™ Cushi	on-Mount™ Plus P	rocess Printing Tap	es							
Tapes	E1115H, E1115, 1115	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on	Р	SS/SL	Tan	Better tone reproduction than the standard combination printing tapes.			
Printing	E1115-15H, E1115-15, 1115-15	0.015 (0.38)	0.015 (0.38)	each side of a foam carrier, protected by a release liner on	Р	SS/SL	Tan	Clean removal from plate and print cylinder.			
SS	E1120H, E1120, 1120	0.020 (0.51)	0.022 (0.56)	one side.	Р	SS/SL	Tan				
Process	E1120-20H, E1120-20, 1120-20	0.020 (0.51)	0.020 (0.51)		Р	SS/SL	Tan				
3™	1120K	0.020 (0.51)	0.022 (0.56)		Р	SL	Tan				

DL - Double Liner E - Air Release Standard Plate Side Adhesion EH - Air Release High Plate Side Adhesion K - High Sleeve Side Adhesion for Composite Sleeves M - Modified Plate Side Adhesion P - Photopolymer Plates R - For Rubber Plates S - High Adhesion on Cylinder/Sleeve Side SL - Sleeve SS - Stainless Steel Cylinder Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

3M™ Thin Tapes

When cushioning is unnecessary, these tapes can mount both rubber and photopolymer plates. Some are also repositionable.

Product Number	Tape Thickness Inch (mm)	Description	Compressible Sleeves	Corrugated	Rotary Letterpress	Make Ready	Features
415	0.004 (0.10)	Double coated tape with a medium-firm acrylic adhesive on each side of a polyester carrier.		Х	Х		Good adhesion to a wide range of surfaces; can be used for Cameron Press applications.
442KW	0.004 (0.10)	Double coated tape with a firm rubber adhesive on each side of a polyester carrier.		Х	Χ		Plate mounting applications requiring a thin tape to bond rubber or photopolymer plates to metal cylinders.
927	0.002 (0.05)	Acrylic adhesive transfer tape.		Х		Х	Corrugated plate mounting applications where repositionability and removability are not required.
950	0.005 (0.13)	Acrylic adhesive transfer tape.		Х			Corrugated plate mounting applications where repositionability and removability are not required.
2205	0.005 (0.13)	Double coated film tape with differential acrylic adhesive on a polyester film carrier.		Х			Adhesives designed specifically for corrugated flexo mounting. Removes cleanly and easy to reposition.
9500PC	0.005 (0.13)	High performance acrylic adhesive on each side of a polyester carrier.	Х		Х		Thin tape plate mounting applications requiring higher performance than 442KW Tape.

All tapes listed on this chart have been used successfully on non-compressible sleeves.

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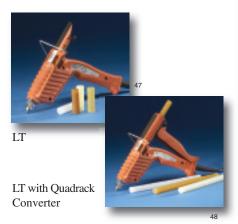


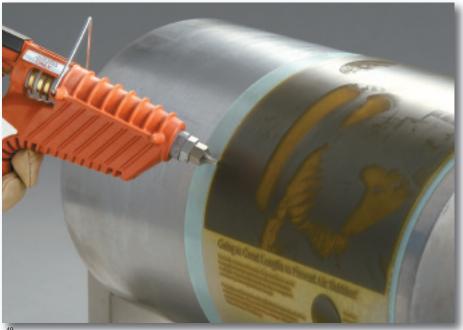
Designed specifically for flexographic printing on corrugated board, $3M^{\infty}$ Thin Flexographic Mounting Tape 2205 is a 5-mil double-coated polyester film tape with cross-hatched adhesive. The cross hatching reduces air entrapment, saving time and improving print quality.

Plate Edge Sealing

3M™ Scotch-Weld™ Hot Melt Bonding Systems

Easily apply 3M[™] Scotch-Weld[™] Hot Melt Adhesives 3762LM, 3776LM, 3792LM, or 3798LM with a 3M[™] Scotch-Weld[™] Hot Melt Applicator LT to seal plate edges against ink and solvent penetration that can cause edge lifting.





				Adhesive Size		
3M™ Scotch-Weld™ Hot Melt Applicator	Weight	Output lb/hr	Temperature	dia. x length	Accessories (keyed below)	
LT	10.0 oz.	2.6	265°F (129°C)	5/8 x 2"	1234	
LT with Quadrack™ Converter	13.8 oz.	2.6	265°F (129°C)	5/8 x 8"	14	





Tip No.	Description
9913	2 Hole Spreader (1/4" hole span)
9916	3 Hole Spreader
9921	.090" Fluted Tip
9922	.063" Fluted Tip
9940	.125" Fluted Tip
9725	Mini Extension Tip .072" Opening
9785	.070" Tapered Aluminum Extension



A general purpose tip (9921) is supplied with each 3MTM Scotch-WeldTM Applicator. Optional tips are available to increase productivity.

Increase capacity and ease of operation with Quadrack Converter and Palm Trigger.

Heavy-Duty Benchstand for added convenience.

Product Information

3M™ Scotch-Weld™ Hot Melt Adhesives (Color)		Features Application Ideas	Sizes	Delivery Time (sec) for 1" x 3" Cartridge	Heat Resistance (°F/°C)	Peel Strength PIW ⁽¹⁾ 72°F (22°C)	Shear Strength PSI ⁽²⁾ 72°F (22°C)	Open Time 1/8" Bead (sec) ⁽³⁾
Low Melt Technology: Applied 250°–270°F (127°–132°C)	3762LM* Lt. Amber	Economical, fast setting general purpose	5/8" x 8" 5/8" x 2"	45	130/54	6	480	25
	3776LM Tan	Bonds variety of materials	5⁄8" x 8"	47	140/60	9	600	40
	3792LM* Clear	Clear, multi-purpose	5/8" x 8" 5/8" x 2"	57	140/60	13	350	40
Low Applied 29	3798LM Clear	Gummy glue removable adhesive	5/8" x 2"	N/A	120/49	N/A	N/A	30

^{*} Also available in bulk. \qquad (1) On canvas (2) On Douglas Fir (3) 1/8" semicircular bead, Douglas Fir to Douglas Fir.

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Multiple options with 3M™ Single Coated Tapes

3M[™] Aluminum Foil Tape 425, 3M[™] Vinyl Tape 471, or 3M[™] Polyester Film Tape 850 are pressure sensitive adhesive tapes that bond on contact to seal plate edges against ink and solvent penetration that can cause edge lifting.





To seal plate edges against ink and solvent penetration that can weaken mounting tape strength, $3M^{\infty}$ Aluminum Foil Tape 425 (left) and $3M^{\infty}$ Vinyl Tape 471 (right) apply easily, bonding on contact and conforming over the plate edge.

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 Ibs./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		
Premium Performar	nce Aluminum Foil Tape							
425	Aluminum/Acrylic	2.8 (0.07)	4.6 (0.12)	47 (51)	30 (525)	8	-65 to 300°F (-54 to 149°C)	Most versatile aluminum tape. 1, 2, 3, 4
Premium Performar	nce Vinyl Tape							
471/Various Colors	Vinyl/Rubber	4.1 (0.10)	5.2 (0.13)	23 (25)	16 (280)	130	40 to 170°F (4 to 77°C)	Conformable and clean removal. Black, Blue, Brown, Green, Orange, Purple, Red, Transparent, White, Yellow.
General Industrial T	apes							
850/Transparent	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, sealing, highly transparent.
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.
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, decorating, color-coding, sealing.

¹ Can be qualified to L-T-80B,MIL-T-23397B II 2 Meets U.L., Class L File R 7311 3 F.A.R.25.853 (a) 4 Meets U.L.746C File E122798 **Note:** This technical information and data should be considered representative or typical only and should not be used for specification purposes.

Other Mounting Essentials



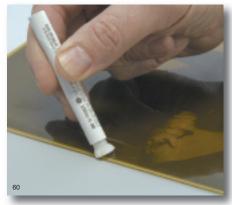
3M™ Cylinder Mount Build-Up Tape 1640

For use with any 3M flexographic tape to add 0.040" thickness. Facilitates use of thinner printing plates.

Scotch® Magic Tape 810

Secures proofing paper to a proofer/ mounter with good adhesion but simple removal from the proofing cylinder.





3M[™] **Primer 94 –** Helps hold the leading and trailing edges of the plate to prevent edge lifting.



3M[™] **Hand Roller 903** – For virtually air-free mounting, helps air bleed through and out of the adhesive microchannels in 3M [™] Flexographic Plate Mounting Tapes