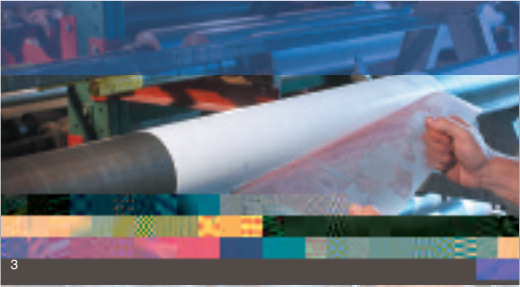
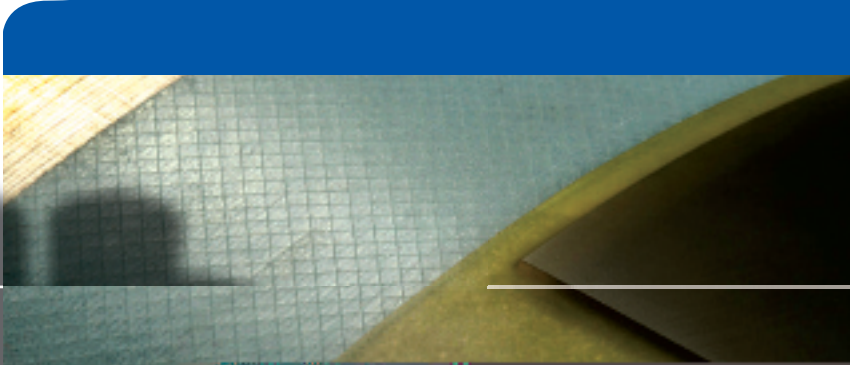


3M™ Flexographic Plate Mounting Systems



Selection Guide



Solids and dots
for satisfaction

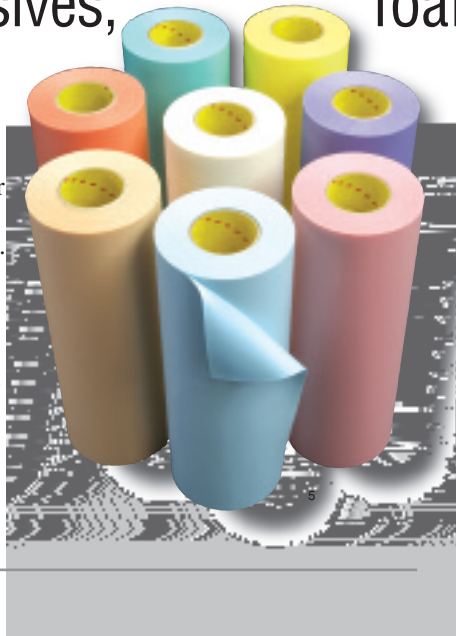


Wide choice of adhesives, foams, and thickness for

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

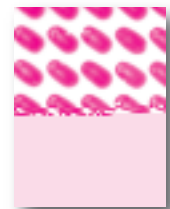
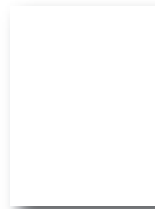


Solid Printing

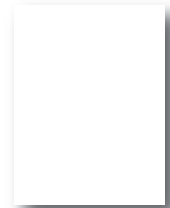
400 Series Tapes:
Solid

18 Series:
Firm

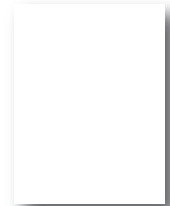
10% HIGHLIGHT



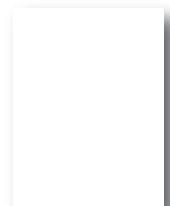
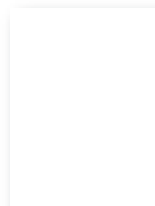
40% MIDTONE



REVERSE



100% SOLID



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

When plate contains mostly solids in a combination of solid and halftone images.

447DL

411DL, 413DL

412DL, 414DL

E1815, E1815H, 1815M

E1820, E1820H, 1820M

E1840, E1840H

E1860, E1860H

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.

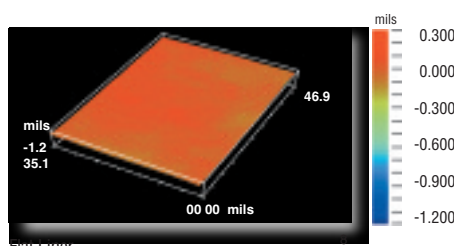
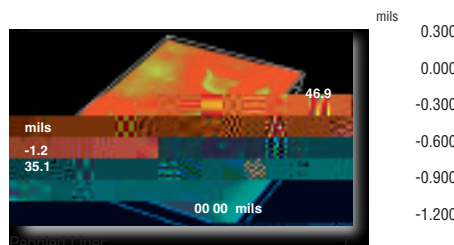
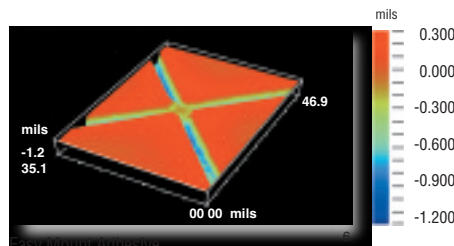
Peels off easily to reduce plate damage

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



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

Combination Printing

Process Printing

17 Series:
Medium Firm

15 Series:
Medium

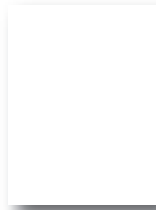
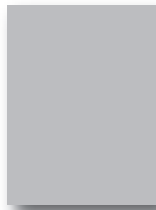
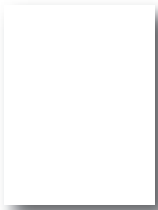
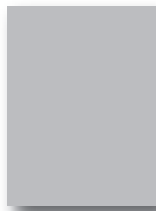
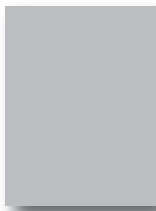
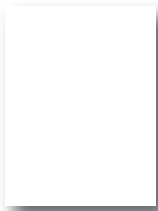
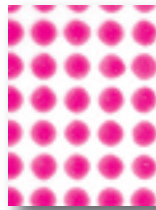
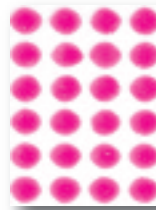
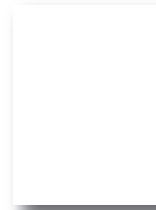
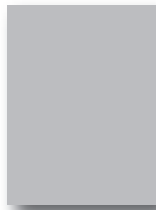
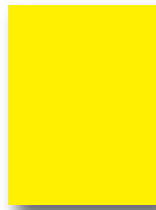
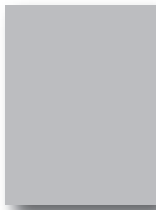
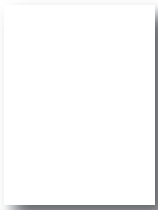
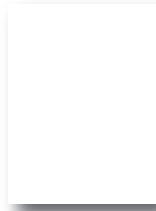
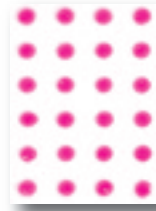
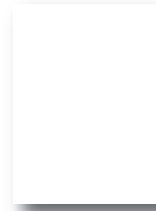
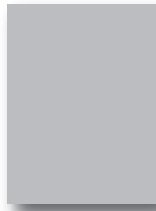
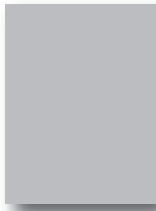
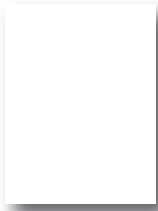
10 Series:
Standard

13 Series:
Medium Soft

19 Series:
Light Medium

12 Series:
Light

11 Series:
Process



When plate contains slightly more solids in a combination of solid and halftone images.

E1715, E1715H
E1720, E1720H,
1720M

For high speed printing with fine type reverses and expanded color gamut.

E1515, E1515H
E1520, E1520H

When solid and halftone areas are equally important.

E1015, E1015H, 1015,
1015M
E1020, E1020H, 1020,
1020M, 1020R
E1040, E1040H, 1040
E1060, E1060H, 1060

For high speed printing of combination work when halftone areas exceed solid.

E1315, E1315H
E1320, E1320H

Improved tone reproduction at high speed when process and halftone images predominate.

E1915, E1915H,
E1915S, E1915HS
1915M
E1920, E1920H,
E1920S, E1920HS,
1920M, 1920S

Low density maximizes dot reproduction for high speed process and screen printing.

E1215, E1215H
E1220, E1220H

Low density maximizes dot reproduction for high quality process work and screen printing.

E1115, E1115H,
1115
E1120, E1120H,
1120, 1120K

3M™ Flexographic Plate Mounting Systems Selection Guide

	Product Number	Application Thickness Inches (mm)	Manufactured Target Thickness Inches (mm)	Description	Plates	Cylinders	Color	Features
3M™ Solid Printing Tapes	400 Series 3M™ Flexomount™ Solid Printing Tapes							
	411DL, 411	0.015 (0.38)	0.015 (0.38)	Gray double coated tape with a soft rubber adhesive on each side of a vinyl carrier. Available in single and double liner.	P/R	SS/SL	Gray	Gray vinyl tapes with high adhesion. Helps reduce edge lifting. Helps minimize pin holing on solid work.
	412DL, 412	0.020 (0.51)	0.020 (0.51)		P/R	SS/SL	Gray	
	447DL, 447	0.010 (0.25)	0.010 (0.25)		P/R	SS/SL	Gray	
	413DL	0.015 (0.38)	0.015 (0.38)	Black double coated tape with a firm rubber adhesive on each side of a vinyl carrier. Available only in double liner.	P/R	SS/SL	Black	Black vinyl - lower adhesion. Higher temperature and solvent resistance. Helps minimize pin holing on solids.
	414DL	0.020 (0.51)	0.020 (0.51)		P/R	SS/SL	Black	
3M™ Combination Printing Tapes	18 Series 3M™ Cushion-Mount™ Plus Firm Combination Printing Tapes							
	E1815H, E1815, 1815M	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on each side of a foam carrier, protected by a release liner on one side.	P	SS/SL	Blue	Better solid ink density than the standard combination printing tapes. Clean removal from plate and print cylinder.
	E1820H, E1820, 1820M	0.020 (0.51)	0.022 (0.56)		P	SS/SL	Blue	
	E1840, E1840H	0.040 (1.02)	0.042 (1.07)		P	SS/SL	Blue	
	E1860, E1860H	0.060 (1.52)	0.062 (1.57)		P	SS/SL	Blue	
	17 Series 3M™ Cushion-Mount™ Plus Medium Firm Combination Printing Tapes							
	E1715H, E1715	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on each side of a foam carrier, protected by a release liner on one side.	P	SS/SL	Teal	Quality results when plate contains slightly more solids in a combination of solid and halftone images.
	E1720H, E1720, 1720M	0.020 (0.51)	0.022 (0.56)		P	SS/SL	Teal	
	15 Series 3M™ Cushion-Mount™ Plus Medium Combination Printing Tapes							
	E1515, E1515H	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on each side of a foam carrier, protected by a release liner on one side.	P	SS/SL	Purple	High quality, medium combination print. Adhesive removes cleanly from the print plate and the print cylinder.
	E1520, E1520H	0.020 (0.51)	0.022 (0.56)		P	SS/SL	Purple	
	10 Series 3M™ Cushion-Mount™ Plus Standard Combination Printing Tapes							
	E1015H, E1015, 1015, 1015M	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on each side of a foam carrier, protected by a release liner on one side.	P	SS/SL	White	Most versatile 3M™ Cushion-Mount™ Plus Tapes. Effectively prints most types of flexographic printing.
E1015-15H, E1015-15, 1015-15	0.015 (0.38)	0.015 (0.38)	P		SS/SL	White		
E1020H, E1020, 1020, 1020M	0.020 (0.51)	0.022 (0.56)	P		SS/SL	White		
1020R	0.020 (0.51)	0.022 (0.56)	P/R		SS/SL	White		
E1020-20H, E1020-20, 1020-20	0.020 (0.51)	0.020 (0.51)	P		SS/SL	White		
E1040H, E1040, 1040	0.040 (1.02)	0.042 (1.07)	P		SS/SL	White		
E1060H, E1060, 1060	0.060 (1.52)	0.062 (1.57)	P		SS/SL	White		
13 Series 3M™ Cushion-Mount™ Plus Medium Combination Printing Tapes								
E1315H, E1315	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on each side of a foam carrier, protected by a release liner on one side.	P	SS/SL	Yellow	High quality, medium-soft combination print. Adhesive removes cleanly from the print plate and the print cylinder.	
E1320H, E1320	0.020 (0.51)	0.022 (0.56)		P	SS/SL	Yellow		
19 Series 3M™ Cushion-Mount™ Plus Soft Combination Printing Tapes								
E1915, E1915H, 1915M	0.015 (0.38)	0.017 (0.43)	Differential acrylate adhesive system on each side of a foam carrier, protected by a release liner on one side.	P	SS/SL	Pink	Soft support improves tone reduction when process and halftone images predominate.	
E1915HS, E1915S	0.015 (0.38)	0.017 (0.43)		P	SL	Pink		
E1920H, E1920, 1920M	0.020 (0.51)	0.022 (0.56)		P	SS/SL	Pink		
E1920S, 1920S, E1920HS	0.020 (0.51)	0.022 (0.56)		P	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.

Plate Edge Sealing

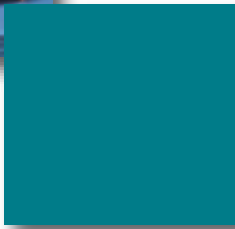
3M™ Scotch-Weld™ Hot Melt Bonding Systems

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.

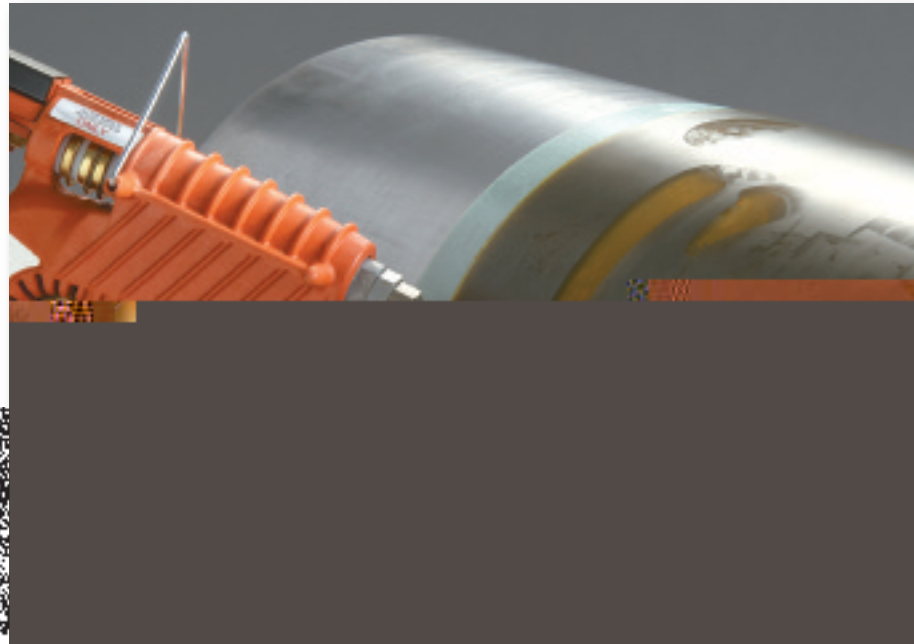


LT

LT with Quadrack Converter



48



49

3M™ Scotch-Weld™ Hot Melt Applicator	Weight	Output lb/hr	Temperature	Adhesive Size	Accessories (keyed below)
				dia. x length	
LT	10.0 oz.	2.6	265°F (129°C)	5/8 x 2"	1 2 3 4
LT with Quadrack™ Converter	13.8 oz.	2.6	265°F (129°C)	5/8 x 8"	1 4



50

51



4

52

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

Heavy Duty Benchstand for added convenience.

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 3M™ Scotch-Weld™ Applicator. Optional tips are available to increase productivity.

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	5/8" x 8" 5/8" x 2"	45	130/54	6	480	25
	3776LM Tan	5/8" x 8"	47	140/60	9	600	40
	3792LM* Clear	5/8" x 8" 5/8" x 2"	57	140/60	13	350	40
	3798LM Clear	5/8" x 2"	N/A	120/49	N/A	N/A	30

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

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