



Science.
Applied to Life.™

A photograph showing two men in a factory setting. They are standing in front of a large roll of white paper. The man on the left is wearing a light blue t-shirt, blue jeans, and safety glasses. The man on the right is wearing a light blue t-shirt, blue jeans, and work gloves. They are both looking at a blue strip of material on the roll. The background shows industrial machinery and a red structure.

**Productivity and
performance
throughout printing
plants, web and paper
processing facilities.**

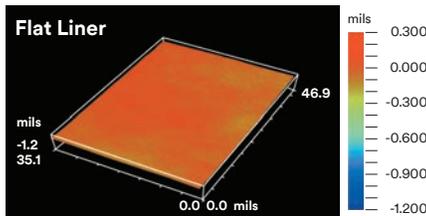
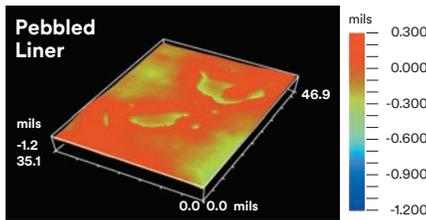
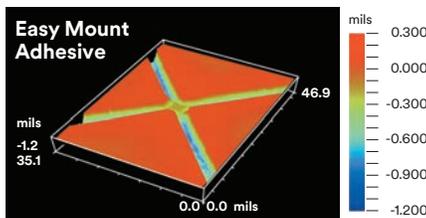
3M Solutions for Web Processing

Wide choice of adhesives, foams and thickness for the results your customers demand.

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 thickness 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



Microscopic view of adhesive surface measured with interferometer.



3M Air Release Flexographic Plate Mounting Tapes

On easy with reduced air entrapment. Unlike flat or pebbled liners, E-Series liners are crosshatched. This imprints unique micro-channels into the adhesive that allows air to flow throughout. 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.

Bubble-free print quality. Prevent blemishes in screen and process printing. Help assure proper registration.

E-Series Tapes with easy mount adhesive

Introduced the world to the features of 3M air release tapes. 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.

L-Series Tapes with less removal force

3M L-Series combine the air-release feature with a unique adhesive technology. They are designed to provide easy and clean removal of printing plates across a wide range of printing applications with excellent resistance to plate lifting.

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

3M EH-Series utilizes the air-release feature with higher plate side adhesion to resist edge lifting on cylinder diameters as small as 2 inches.

	Solid Printing	Combination Printing							Process Printing
	400-Series Tapes: Solid	18-Series: Firm	17-Series: Medium Firm	15-Series: Medium	10-Series: Standard	13-Series: Medium Soft	19-Series: Light Medium	12-Series: Light	11-Series: Process
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.	When plate contains slightly more solids in a combination of solid and halftone images.	For high speed printing with fine type reverses and expanded color gamut.	When solid and halftone areas are equally important.	For high speed printing of combination work when halftone areas exceed solid.	Improved tone reproduction at high speed when process and halftone images predominate.	Low density maximizes dot reproduction for high speed process and screen printing.	Low density maximizes dot reproduction for high quality process work and screen printing.
	411 411DL 412 412DL 447 447DL	E1815 E1815H L1815 E1820 E1820H L1820 E1840 E1840H E1860 E1860H	E1715 E1715H L1715 E1720 E1720H L1720 E1720 E1720H L1720	E1515 E1515H L1515 E1520 E1520H L1520	E1015 E1015H 1015 L1015 E1020 E1020H 1020 1020R L1020 E1040 E1040H 1040 E1060 E1060H 1060	E1315 E1315H L1315 E1320 E1320H L1320	E1915 E1915H E1915S E1915HS L1915 L1915S E1920 E1920H E1920S E1920HS L1920 L1920S	E1215 E1215H L1215 E1220 E1220H L1220	E1115 E1115H 1115 L1115 E1120 E1120H 1120 L1120

DL – Double Liner

E – Air Release, Standard Plate Side Adhesion

EH – Air Release, High Plate Side Adhesion

L – Air Release, Less Removal Force and Plate Damage

M – Modified Plate Side Adhesion

R – For Rubber Plates

S – High Adhesion on Cylinder/Sleeve Side

Note: Additional calipers available for specialized needs.

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 Plate Mounting Tapes							
	411DL, 411	0.015 (0.38)	0.015 (0.38)		P/R	SS/SL	Gray	
	412DL, 412	0.020 (0.51)	0.020 (0.51)	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.
	447DL, 447	0.010 (0.25)	0.010 (0.25)		P/R	SS/SL	Gray	
3M™ Combination Printing Tapes	18-Series — 3M™ Cushion-Mount™ Plus Firm Combination Plate Mounting Tapes							
	E1815H, E1815, L1815	0.015 (0.38)	0.017 (0.43)		P	SS/SL	Blue	
	E1820H, E1820, L1820	0.020 (0.51)	0.022 (0.56)	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.
	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 Plate Mounting Tapes							
	E1715H, E1715, L1715	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, L1720	0.020 (0.51)	0.022 (0.56)		P	SS/SL	Teal	
	15-Series — 3M™ Cushion-Mount™ Plus Medium Combination Plate Mounting Tapes							
	E1515, E1515H, L1515	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, L1520	0.020 (0.51)	0.022 (0.56)		P	SS/SL	Purple	
	10-Series — 3M™ Cushion-Mount™ Plus Standard Combination Plate Mounting Tapes							
	E1015H, E1015, L1015	0.015 (0.38)	0.017 (0.43)		P	SS/SL	White	
E1015-15H, E1015-15, L1015-15	0.015 (0.38)	0.015 (0.38)		P	SS/SL	White		
E1020H, E1020, L1020	0.020 (0.51)	0.022 (0.56)	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.	
1020R	0.020 (0.51)	0.022 (0.56)		P/R	SS/SL	White		
E1020-20H, E1020-20, L1020-20	0.020 (0.51)	0.020 (0.51)		P	SS/SL	White		
E1040H, E1040, L1040	0.040 (1.02)	0.042 (1.07)		P	SS/SL	White		
E1060H, E1060, L1060	0.060 (1.52)	0.062 (1.57)		P	SS/SL	White		

DL – Double Liner
 E – Air Release, Standard Plate Side Adhesion
 EH – Air Release, High Plate Side Adhesion
 L – Air Release, Less Removal Force and Plate Damage
 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: The 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 (cont.)

	Product Number	Application Thickness Inches (mm)	Manufactured Target Thickness Inches (mm)	Description	Plates	Cylinders	Color	Features	
13-Series — 3M™ Cushion-Mount™ Plus Medium Soft Combination Plate Mounting Tapes									
3M™ Combination Printing Tapes (cont.)	E1315H, E1315, L1315	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, L1320	0.020 (0.51)	0.022 (0.56)		P	SS/SL	Yellow		
	19-Series — 3M™ Cushion-Mount™ Plus Light Medium Combination Plate Mounting Tapes								
	E1915, E1915H, L1915	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, L1915S	0.015 (0.38)	0.017 (0.43)		P	SL	Pink		
	E1920H, E1920, L1920	0.020 (0.51)	0.022 (0.56)		P	SS/SL	Pink		
	E1920S, E1920HS, L1920S	0.020 (0.51)	0.022 (0.56)		P	SL	Pink		
	12-Series — 3M™ Cushion-Mount™ Plus Light Combination Plate Mounting Tapes								
	E1215H, E1215, L1215	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	Orange	High quality, light combination print. Adhesive removes cleanly from the print plate and the print cylinder. Air release on both adhesive surfaces.	
	E1220H, E1220, L1220	0.020 (0.51)	0.022 (0.56)		P	SS/SL	Orange		
11-Series — 3M™ Cushion-Mount™ Plus Process Plate Mounting Tapes									
3M™ Process Printing Tapes	E1115H, E1115, 1115, L1115	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	Tan	Better tone reproduction than the standard combination printing tapes. Clean removal from plate and print cylinder.	
	E1115-15H, E1115-15, 1115-15	0.015 (0.38)	0.015 (0.38)		P	SS/SL	Tan		
	E1120H, E1120, 1120, L1120	0.020 (0.51)	0.022 (0.56)		P	SS/SL	Tan		
	E1120-20H, E1120-20, 1120-20	0.020 (0.51)	0.020 (0.51)		P	SS/SL	Tan		

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Solutions to keep the work flowing and your customers coming back.

When you need to splice webs, reduce plate damage or improve print quality, you can rely on 3M to provide you with the right solutions.

Having the right products makes all the difference. 3M can help you maximize your plant's potential by offering reliable products such as air-release tapes that provide clean and easy removal of printing plates, splicing tapes for improved productivity and efficiencies, and web handling systems that can increase or decrease the level of traction.

Plus, a line of products that can help keep the rest of your plant running smoothly, like lane marking tapes to show the way, case sealers that ease bottleneck and high to low temperature threadlockers.



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