

# 3M Flexographic Mounting Aids



## Plate Lifting

### 3M™ Primer 94 Dauber

Applied under the leading and trailing edges of a flexographic printing plate, this primer helps hold the plate down on press to prevent plate edge lifting problems.



## Plate Edge Sealing

### 3M™ Jet-melt™ Adhesives 3762-LM, 3776-LM and 3792-LM

Used with a 3M™ Polygon™ LT Applicator outfitted with a Quadrack™ Converter and Palm Trigger, these adhesives help prevent plate lifting caused by inks and other solvents penetrating beneath the tape and plate.



## Plate Edge Sealing

### 3M™ Aluminum Foil Tape 425, 3M™ 471 Tape and 3M™ Polyester Film Tape 850

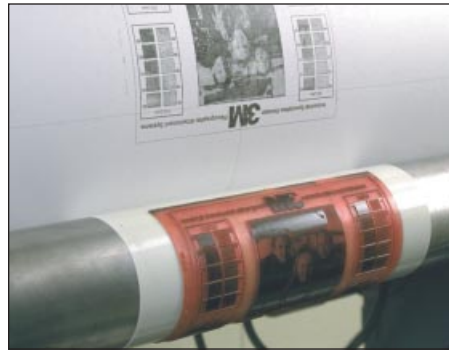
Single coated industrial tape that minimizes the potential for plate lifting during the press run by providing a barrier against ink and other solvents.



## Build-Up During Make-Ready

### 3M™ Adhesive Transfer Tape 465

On plates involving both solid and tone reproduction, this tape enhances solid ink density by raising the solid imaged print area so that it contacts the substrate before the rest of the plate.



## Securing Proofing Paper To Proofer/Mounter

### Scotch™ Magic™ Tape 810

Provides conformability to adhere proofing paper to a proofer/mounter, with good adhesion but simple removal from the proofing cylinder.



## Adhesion Promoter For Rubber Plates

### 3M™ Fastbond™ 30-NF Contact Adhesive

Available in neutral or green, it increases the adhesion of 3M™ Flexographic Mounting Tapes to rubber plates.

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ISO 9002

This Industrial Tape and Specialties Division product was manufactured under a 3M system registered to ISO 9002 standards.

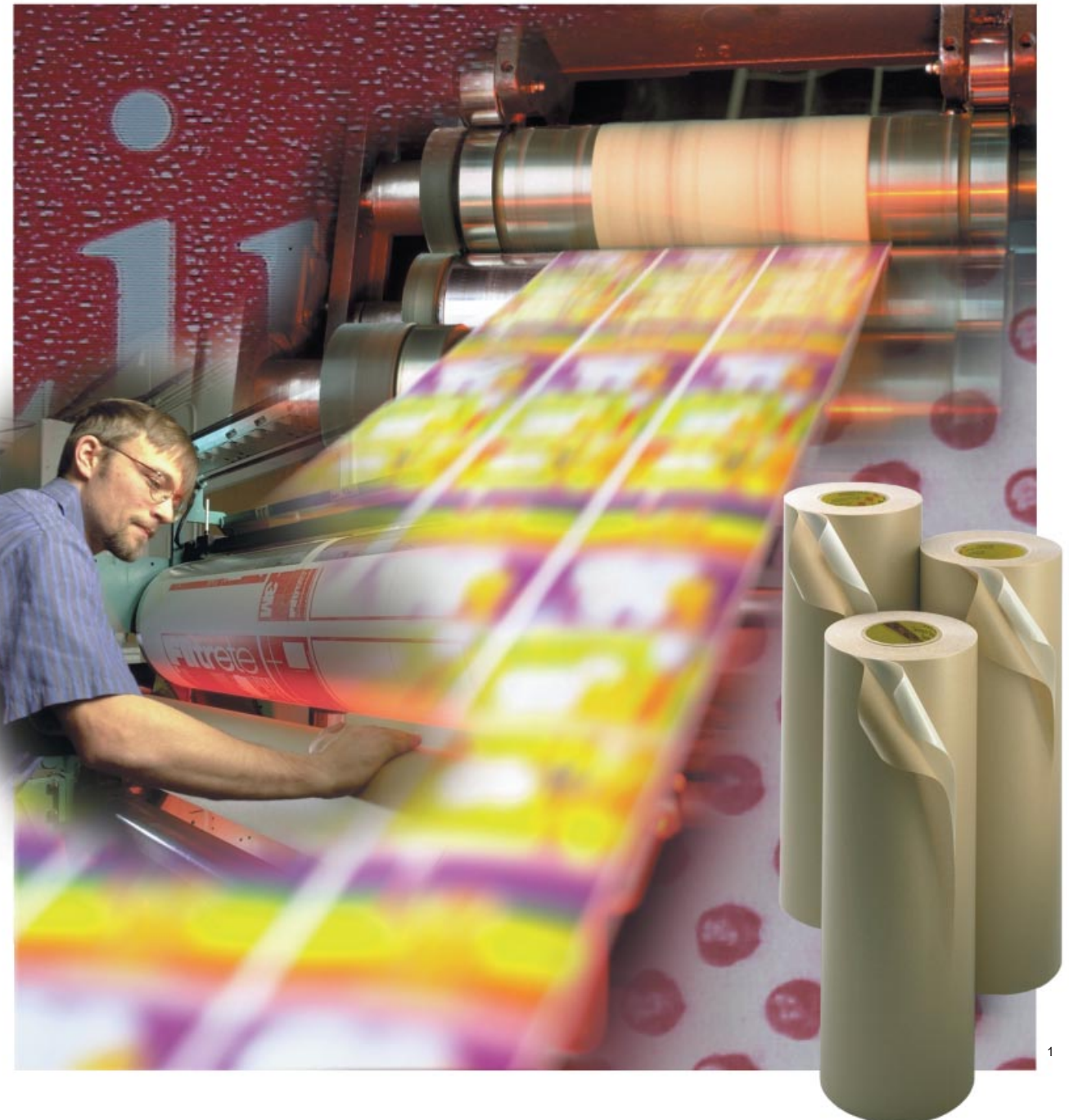


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# Flexographic Mounting Systems Selection Guide



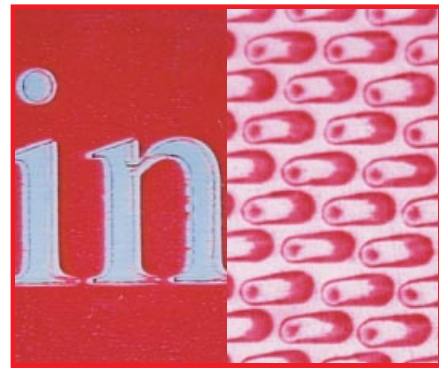
# 3M Flexographic Mounting Systems. Because You've Got A Lot Riding On Your Plates.

During a press run, your mounting tape isn't just going along for the ride. The type of tape you use plays a key role in the type of results you get. That's why 3M offers such a broad tape selection.

For solid ink coverage, we produce a full line of firm, high-density mounting tapes. In halftone work, where dot gain is a concern, our selection of softer tapes helps you optimize reproduction. And when solid areas and dots both figure prominently on the same plate, 3M combination printing tapes help you strike the proper balance.

Regardless of your tape's density, you want a product that you can position accurately and remove cleanly from both plate and cylinder. And you want a bond that will hold up under the demands of your application. With a wide choice of adhesives, carrier materials and tape thicknesses, 3M helps make the entire printing process as successful as the end result.

One other factor sets 3M apart — the quality of our flexographic sales specialists and technical service engineers. They provide the expertise to help you select the correct tape and use it with maximum effectiveness. That's the kind of support you want when you've got a lot riding on your plates.



Flexomount™ Solid Printing Tape provides maximum firmness and high density for uniform coverage of solid areas when halftone dot reproduction is not critical.  
**e.g. 412DL Tape**



Cushion-Mount™ Solid Printing Tape uses a foam carrier instead of vinyl to help reduce cylinder bounce and deliver results similar to Flexomount™ Tape.  
**e.g. 939 Tape**



Cushion-Mount™ Plus Firm Combination Printing Tape is recommended when the plate contains both solid and halftone images but the solids predominate.  
**e.g. 1820M Tape**



Cushion-Mount™ Plus Standard Combination Printing Tape is ideal when solid and halftone areas are of relatively equal importance and you don't want to sacrifice either.  
**e.g. 1020 Tape**



Cushion-Mount™ Plus Soft Combination Printing Tape provides soft support that helps improve tone reproduction when process and halftone images predominate.  
**e.g. 1920M Tape**



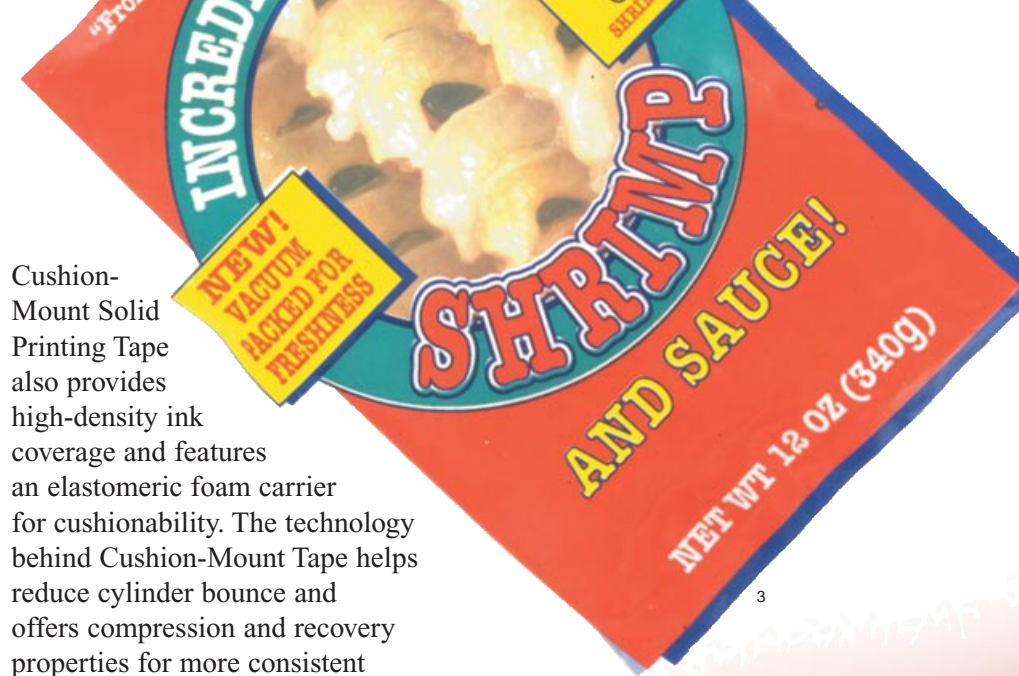
Cushion-Mount™ Plus Process Printing Tape is a low-density product that maximizes dot reproduction and is well-suited to high quality process work.  
**e.g. 1120 Tape**

# 3M Solid Printing Tapes

When solid ink coverage and crisp line work are critical, 3M™ Flexomount™ and Cushion-Mount™ Solid Printing Tapes are the logical choices.

The caliper control and advanced adhesion of Flexomount Tape makes it the industry standard for applications requiring maximum ink density and minimum pin holing. Ideal for both rubber and photopolymer plates, this vinyl-carrier tape delivers consistent holding power yet peels off easily without leaving a residue when the job is done.

Cushion-Mount Solid Printing Tape also provides high-density ink coverage and features an elastomeric foam carrier for cushionability. The technology behind Cushion-Mount Tape helps reduce cylinder bounce and offers compression and recovery properties for more consistent solid printing quality.



Flexomount™ Solid Printing Tapes					
PRODUCT NUMBER	TAPE THICKNESS* INCH (mm)	DESCRIPTION	RUBBER PLATES	PHOTOPOLYMER PLATES	FEATURES
411DL	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.	•	•	Gray vinyl products with a high adhesion.  Helps reduce edge lifting.  Helps minimize pin holing on solid work.
412DL	0.020" (0.50)		•	•	
447DL	0.010" (0.25)		•	•	
413DL	0.015" (0.38)	Black double coated tape with a firm rubber adhesive on each side of a vinyl carrier. Available in double liner only.	•	•	Black vinyl—lower adhesion.  Higher temperature and solvent resistance.  Helps minimize pin holing on solids.
414DL	0.020" (0.50)		•	•	

Cushion-Mount™ Solid Printing Tapes					
PRODUCT NUMBER	TAPE THICKNESS* INCH (mm)	DESCRIPTION	RUBBER PLATES	PHOTOPOLYMER PLATES	FEATURES
933	0.015" (0.38)	Rubber adhesive on each side of a high density elastomeric foam.	•	•	Highest density 3M Cushion-Mount™ products.  Use for solid and bold line work.
939	0.020" (0.50)		•	•	
949	0.020" (0.50)	Differential adhesive system on a high density elastomeric foam. Non-liner side: rudder resin adhesive. Liner side: acrylic adhesive.	•		Helps reduce cylinder bounce at higher speeds.

\* Listed thickness is nominal performance thickness for which the product is targeted to perform during the flexographic printing operation.

# 3M Combination Printing Tapes

Flexographic printing that combines solids and halftones is often a trade-off between the quality of the solids and the integrity of the dots. 3M™ Cushion-Mount™ Plus Combination Printing Tapes give you greater control over the reproduction of each image on the plate.

When the solid and dot areas are of relatively equal importance, you want to keep the trade-offs to a minimum. For these situations, we recommend our standard combination printing tape. Its ability

to maintain acceptable quality of both solids and halftones makes it our most widely-used mounting tape.

But our standard combination printing tape is not the best choice for every combination. When solids and dark halftones dominate the image area, our firm combination printing tape helps assure the needed ink density. On the other hand, images featuring more process or highlight halftones benefit from the elasticity of our soft combination printing tape.

## Cushion-Mount™ Plus Firm Combination Printing Tapes

PRODUCT NUMBER	TAPE THICKNESS* INCH (mm)	DESCRIPTION	RUBBER PLATES	PHOTOPOLYMER PLATES	FEATURES
1815M	0.015" (0.38)	Differential acrylate adhesive system on each side of a foam carrier, protected by a paper release liner on one side.			<ul style="list-style-type: none"> <li>Better solid ink density than the standard combination printing tapes.</li> <li>Clean removal from plate and print cylinder.</li> </ul>
1820M	0.020" (0.50)				
		'M' products provide lower plate side adhesion.			

## Cushion-Mount™ Plus Soft Combination Printing Tapes

PRODUCT NUMBER	TAPE THICKNESS* INCH (mm)	DESCRIPTION	RUBBER PLATES	PHOTOPOLYMER PLATES	FEATURES
1915M	0.015" (0.38)	Differential acrylate adhesive system on each side of foam carrier, protected by a paper release liner on one side.			<ul style="list-style-type: none"> <li>Better tone reproduction than the standard combination printing tapes.</li> <li>Clean removal from plate and print cylinder.</li> </ul>
1920M	0.020" (0.50)				
		'M' products provide lower plate side adhesion.			

## Cushion-Mount™ Plus Standard Combination Printing Tapes

PRODUCT NUMBER	TAPE THICKNESS* INCH (mm)	DESCRIPTION	RUBBER PLATES	PHOTOPOLYMER PLATES	FEATURES
1015/1015M	0.015" (0.38)	Differential acrylate adhesive system on polyethylene foam.			<ul style="list-style-type: none"> <li>Most versatile 3M™ Cushion-Mount™ products.</li> <li>Effectively prints most types of flexographic printing.</li> </ul>
1020/1020M	0.020" (0.50)				
1020R	0.020" (0.50)				
1040	0.040" (1.00)	'M' product for use on photopolymer plates where lower adhesion is preferred.			
1060	0.060" (1.50)				

\* Listed thickness is nominal performance thickness for which the product is targeted to perform during the flexographic printing operation.

# 3M Process Printing Tapes

3M™ Cushion-Mount™ Plus Process Printing Tape allows high quality process work and screen printing. The soft foam carrier — of low-density polyethylene — features compression and recovery properties that help reduce dot gain.

As with the other series of 3M mounting tapes, this series is available in a choice of thicknesses to meet common undercut or pitch diameters on flexographic presses. All the process printing tapes are suitable for photopolymer

plate mounting, including one tape designed for mounting photopolymer plates to fiberglass or composite sleeves.

## Cushion-Mount™ Plus Process Printing Tapes

PRODUCT NUMBER	TAPE THICKNESS* INCH (mm)	DESCRIPTION	RUBBER PLATES	PHOTOPOLYMER PLATES	FEATURES
1115	0.015" (0.38)	Differential acrylate adhesive system on low-density polyethylene foam.		•	Can be used for high quality process work and screen printing.
1120	0.020" (0.50)			•	
1120K	0.020" (0.50)			•	

\*K' product mounts plates to fiberglass or composite sleeves.

# 3M Cylinder Mount Build-Up Tapes

Thinner plates can enhance printing quality. But in the past, they often required an investment in new cylinders, gears or sleeves — or a change in plate mounting tape thickness. 3M Cylinder Mount Build-Up Tape can provide a more cost-effective solution to the problem of meeting press undercut and pitch diameter requirements when using thinner plates.

Any 3M Flexomount™, Cushion-Mount™ or Cushion-Mount™ Plus Printing Tape attaches to the non-linered side of our build-up tape.

Depending on the undercut of your press and the thickness of your plate, you can select either 3M™ 1620 (0.020"-thickness) or 1640 (0.040"-thickness) Cylinder Mount Build-Up Tape.



# 3M Thin Tapes

3M offers a long line of thin tape mounting systems. We recommend thin tapes when a thicker caliper or cushion is unnecessary. Ranging in

thickness from 2 mils to 9 mils, these tapes can mount both rubber and photopolymer plates and some are repositionable. Various tapes

are designed for rotary letterpress mounting, corrugated plate mounting and build-up for low spots and sleeve applications.

## 3M™ Thin Tapes

PRODUCT NUMBER	TAPE THICKNESS* INCH (mm)	DESCRIPTION	PRINTING APPLICATIONS				FEATURES
			COMPRESSIBLE SLEEVES*	CORRUGATED	ROTARY LETTERPRESS	MAKE READY	
401	0.009" (0.23)	Double coated tape with a soft rubber adhesive on each side of a paper carrier.			•		Letterpress mounting of rubber and photopolymer plates.
415	0.004" (0.10)	Double coated tape with a medium-firm acrylic adhesive on each side of a polyester carrier.		•	•		Good adhesion to a wide range of surfaces; can be used for Cameron Press applications.
422PC	0.004" (0.10)	Double coated tape with a firm rubber adhesive on each side of a polyester carrier.		•	•		Plate mounting applications requiring a thin tape to bond rubber or photopolymer plates to metal cylinders.
443	0.005" (0.13)	Double coated tape with a soft rubber adhesive on each side of a polyester carrier.		•	•		Mounting applications requiring a thin tape to bond polyester, fiberglass and other surfaces.
465	0.002" (0.05)	Acrylic adhesive transfer tape.		•		•	Small area plate build-up or make-ready. Also used to mount primed rubber plates.
927	0.002" (0.05)	Acrylic adhesive transfer tape.		•		•	Corrugated plate mounting applications where repositionability and removability are not required.
950	0.005" (0.13)	Acrylic adhesive transfer tape.		•			Corrugated plate mounting applications where repositionability and removability are not required.
666	0.0035" (0.09)	Removable acrylic adhesive on a UPVC carrier. Lined side has a slightly higher adhesion.	•	•	•		Repositionable and removable adhesive system for compressible sleeves and other flexo and rotary letterpress plate mounting applications.
9425PC	0.0055" (0.14)	Removable high-tack/medium-tack acrylic double coated tape on a UPVC film. Non lined side is high-tack.	•		•		Repositionable and removable adhesive system for compressible sleeves and other flexo and rotary letterpress plate mounting applications.
9429	0.005" (0.13)	Removable medium-tack acrylic double coated polyethylene film tape.	•		•		Repositionable and removable adhesive system for compressible sleeves and other flexo and rotary letterpress plate mounting applications.
9500	0.005" (0.13)	High performance acrylic adhesive on each side of a polyester carrier.	•		•		Thin tape plate mounting applications requiring higher performance than 443 Tape.

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

\* Listed thickness is nominal performance thickness for which the product is targeted to perform during the flexographic printing operation.