



# Cushion-Mount™ Plus Plate Mounting Tapes with Easy Mount Adhesive

L1820

L1720

L1520

L1020

L1320

L1920, L1920S

L1220

L1120

**Technical Data**

**January, 2015**

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## **Product Description**

3M™ Cushion-Mount™ Plus Plate Mounting Tapes with Easy Mount Adhesive are designed for mounting flexographic print plates to cylinders or sleeves. This family of foam mounting tapes provides excellent print quality for process, combination, and solid printing. This product is designed to provide easy and clean removal of printing plates across a wide range on printing applications with excellent resistance to plate lifting.

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## **Features**

- Offers a complete range of foam densities providing excellent print quality from process to combination to solid printing
- Consistent caliper control allows the printer to use multiple foam densities on a print job to optimize print quality.
- Use the 3M proprietary Easy Mount liner, creating micro-channels in both adhesive surfaces. The crosshatched pattern creates a continuous and permanent network of micro-channels in the adhesive, allowing air to escape from between the tape and cylinder/sleeve and between the tape and plate.
- The adhesive on the lined side (plate side) of the tape is designed for mounting of photopolymer plates, excellent holding power on-press and clean plate removal when demounting.
- The adhesive on the non-lined side (cylinder side) of the tape is designed for mounting to flexographic printing cylinders or sleeves, providing easy application at mounting and clean removability when demounting.

# 3M™ Cushion-Mount™ Plus Plate Mounting Tapes with Easy Mount Adhesive

L1820 • L1720 • L1520 • L1020 • L1320 • L1920 • L1920S • L1220 • L1120

**Typical Physical Properties and Performance Characteristics** Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Product	3M™ Cushion-Mount™ Plus Firm Combination Plate Mounting Tapes		3M™ Cushion-Mount™ Plus Medium Firm Combination Plate Mounting Tapes		3M™ Cushion-Mount™ Plus Medium Combination Plate Mounting Tapes	
	L1820		L1720		L1520	
Adhesive	Differential Acrylate		Differential Acrylate		Differential Acrylate	
Polyethylene Carrier	Firm Blue Foam		Medium Firm Teal Foam		Medium Purple Foam	
Type of Printing	Combination of solid and line with minimal tone reproduction		Combination of solid and line with tone reproduction and fine reverses		Combination of solid and line with tone reproduction and fine reverses	
Application Thickness	in (mm)	0.020 (0.508)	0.020 (0.508)	0.020 (0.508)	0.020 (0.508)	0.020 (0.508)
Thickness						
Tape	in (mm)	0.022 (0.559)	0.022 (0.559)	0.022 (0.559)	0.022 (0.559)	0.022 (0.559)
Film Liner	in (mm)	0.0045 (0.114)	0.0045 (0.114)	0.0045 (0.114)	0.0045 (0.114)	0.0045 (0.114)
Lot to Lot Tolerance	in (mm)	±0.0015 (±0.038)	±0.0015 (±0.038)	±0.0015 (±0.038)	±0.0015 (±0.038)	±0.0015 (±0.038)
Typical Application Area Caliper Variation	in (mm)	±0.0004 (±0.010)	±0.0004 (±0.010)	±0.0004 (±0.010)	±0.0004 (±0.010)	±0.0004 (±0.010)
Roll Length	yd (m)	25 (22.9)	25 (22.9)	25 (22.9)	25 (22.9)	25 (22.9)
Maximum Width	in (mm)	54 (1371.6)	54 (1371.6)	54 (1371.6)	54 (1371.6)	54 (1371.6)
Minimum Width	in (mm)	2 (50.8)	2 (50.8)	2 (50.8)	2 (50.8)	2 (50.8)
Slitting Tolerance	in (mm)	±1/32 (±0.794)	±1/32 (±0.794)	±1/32 (±0.794)	±1/32 (±0.794)	±1/32 (±0.794)
Density	lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	32 (512)	30 (480)	30 (480)	29 (465)	29 (465)
Compression Deflection						
10% Compression	lb/in <sup>2</sup> (kPa)	35 (241)	30 (207)	30 (207)	26 (180)	26 (180)
25% Compression	lb/in <sup>2</sup> (kPa)	60 (414)	50 (345)	50 (345)	40 (276)	40 (276)
Durometer ASTM-D2240 Shore A		72	68	68	67	67
Peel Adhesion (Modified ASTM-D3330)						
Non-linered side - Stainless Steel	oz/in (N/100mm)	55 (60)	55 (60)	55 (60)	55 (60)	55 (60)
Non-linered side - Composite Sleeve	oz/in (N/100mm)	65 (71)	65 (71)	65 (71)	65 (71)	65 (71)
Non-linered side - Polyester	oz/in (N/100mm)	68 (75)	68 (75)	68 (75)	68 (75)	68 (75)
Non-linered side - Urethane - A	oz/in (N/100mm)	70 (77)	70 (77)	70 (77)	70 (77)	70 (77)
Non-linered side - Urethane - B	oz/in (N/100mm)	60 (66)	55 (60)	55 (60)	55 (60)	55 (60)
Peel Adhesion (Modified ASTM-D3330)						
Linered side - Photopolymer	oz/in (N/100mm)	15 (16)	15 (16)	15 (16)	15 (16)	15 (16)
Solvent Resistance						
Water		Excellent	Excellent	Excellent	Excellent	Excellent
Alkanes		Excellent	Excellent	Excellent	Excellent	Excellent
Alcohols		Good	Good	Good	Good	Good
Acetates		Fair	Fair	Fair	Fair	Fair
Heat Resistance	°F (°C)	120 (49)	120 (49)	120 (49)	120 (49)	120 (49)

# 3M™ Cushion-Mount™ Plus Plate Mounting Tapes with Easy Mount Adhesive

L1820 • L1720 • L1520 • L1020 • L1320 • L1920 • L1920S • L1220 • L1120

**Typical Physical Properties and Performance Characteristics** Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Product	3M™ Cushion-Mount™ Plus Standard Combination Plate Mounting Tapes		3M™ Cushion-Mount™ Plus Medium Soft Process Plate Mounting Tapes		3M™ Cushion-Mount™ Plus Light Medium Combination Plate Mounting Tapes	
	L1020		L1320		L1920	
Adhesive	Differential Acrylate		Differential Acrylate		Differential Acrylate	
Polyethylene Carrier	Standard White Foam		Medium Soft Yellow Foam		Light Medium Pink Foam	
Type of Printing	Combination of solids and tone reproduction where solids and process are equally important		Combination of solids and tone reproduction where process printing is important		Combination of solids and tone reproduction where process printing is important	
Application Thickness	in (mm)	0.020 (0.508)	0.020 (0.508)	0.020 (0.508)	0.020 (0.508)	0.020 (0.508)
Thickness						
Tape	in (mm)	0.022 (0.559)	0.022 (0.559)	0.022 (0.559)	0.022 (0.559)	0.022 (0.559)
Film Liner	in (mm)	0.0045 (0.114)	0.0045 (0.114)	0.0045 (0.114)	0.0045 (0.114)	0.0045 (0.114)
Lot to Lot Tolerance	in (mm)	±0.0015 (±0.038)	±0.0015 (±0.038)	±0.0015 (±0.038)	±0.0015 (±0.038)	±0.0015 (±0.038)
Typical Application Area Caliper Variation	in (mm)	±0.0004 (±0.010)	±0.0004 (±0.010)	±0.0004 (±0.010)	±0.0004 (±0.010)	±0.0004 (±0.010)
Roll Length	yd (m)	25 (22.9)	25 (22.9)	25 (22.9)	25 (22.9)	25 (22.9)
Maximum Width	in (mm)	54 (1371.6)	54 (1371.6)	54 (1371.6)	54 (1371.6)	54 (1371.6)
Minimum Width	in (mm)	2 (50.8)	2 (50.8)	2 (50.8)	2 (50.8)	2 (50.8)
Slitting Tolerance	in (mm)	±1/32 (±0.794)	±1/32 (±0.794)	±1/32 (±0.794)	±1/32 (±0.794)	±1/32 (±0.794)
Density	lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	28 (450)	27 (433)	27 (433)	26 (416)	26 (416)
Compression Deflection						
10% Compression	lb/in <sup>2</sup> (kPa)	15 (104)	12 (49)	12 (49)	10 (70)	10 (70)
25% Compression	lb/in <sup>2</sup> (kPa)	30 (207)	25 (172)	25 (172)	20 (138)	20 (138)
Durometer ASTM-D2240 Shore A		65	63	63	60	60
Peel Adhesion (Modified ASTM-D3330)						
Non-linered side - Stainless Steel	oz/in (N/100mm)	55 (60)	55 (60)	55 (60)	30 (33)	30 (33)
Non-linered side - Composite Sleeve	oz/in (N/100mm)	65 (71)	65 (71)	65 (71)	28 (31)	28 (31)
Non-linered side - Polyester	oz/in (N/100mm)	60 (66)	60 (66)	60 (66)	35 (39)	35 (39)
Non-linered side - Urethane - A	oz/in (N/100mm)	80 (88)	80 (88)	80 (88)	45 (50)	45 (50)
Non-linered side - Urethane - B	oz/in (N/100mm)	65 (71)	65 (71)	65 (71)	35 (39)	35 (39)
Peel Adhesion (Modified ASTM-D3330)						
Linered side - Photopolymer	oz/in (N/100mm)	15 (16)	15 (16)	15 (16)	15 (16)	15 (16)
Solvent Resistance						
Water		Excellent	Excellent	Excellent	Excellent	Excellent
Alkanes		Excellent	Excellent	Excellent	Excellent	Excellent
Alcohols		Good	Good	Good	Good	Good
Acetates		Fair	Fair	Fair	Fair	Fair
Heat Resistance	°F (°C)	120 (49)	120 (49)	120 (49)	120 (49)	120 (49)

# 3M™ Cushion-Mount™ Plus Plate Mounting Tapes with Easy Mount Adhesive

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**Typical Physical Properties and Performance Characteristics** Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Product	3M™ Cushion-Mount™ Plus Light Medium Combination Plate Mounting Tapes		3M™ Cushion-Mount™ Plus Light Combination Plate Mounting Tapes		3M™ Cushion-Mount™ Plus Process Plate Mounting Tapes	
	L1920S		L1220		L1120	
Adhesive	Differential Acrylate		Differential Acrylate		Differential Acrylate	
Polyethylene Carrier	Light Medium Pink Foam		Light Orange Foam		Soft Tan Foam	
Type of Printing	Combination of solids and tone reproduction where process printing is important		Combination of solids and tone reproduction where process printing is important		Tone reproduction where process printing is important	
Application Thickness	in (mm)	0.020 (0.508)	0.020 (0.508)	0.020 (0.508)	0.020 (0.508)	0.020 (0.508)
Thickness						
Tape	in (mm)	0.022 (0.559)	0.022 (0.559)	0.022 (0.559)	0.022 (0.559)	0.022 (0.559)
Film Liner	in (mm)	0.0045 (0.114)	0.0045 (0.114)	0.0045 (0.114)	0.0045 (0.114)	0.0045 (0.114)
Lot to Lot Tolerance	in (mm)	±0.0015 (±0.038)	±0.0015 (±0.038)	±0.0015 (±0.038)	±0.0015 (±0.038)	±0.0015 (±0.038)
Typical Application Area Caliper Variation	in (mm)	±0.0004 (±0.010)	±0.0004 (±0.010)	±0.0004 (±0.010)	±0.0004 (±0.010)	±0.0004 (±0.010)
Roll Length	yd (m)	25 (22.9)	25 (22.9)	25 (22.9)	25 (22.9)	25 (22.9)
Maximum Width	in (mm)	54 (1371.6)	54 (1371.6)	54 (1371.6)	54 (1371.6)	54 (1371.6)
Minimum Width	in (mm)	2 (50.8)	2 (50.8)	2 (50.8)	2 (50.8)	2 (50.8)
Slitting Tolerance	in (mm)	±1/32 (±0.794)	±1/32 (±0.794)	±1/32 (±0.794)	±1/32 (±0.794)	±1/32 (±0.794)
Density	lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	26 (416)	25 (400)	25 (400)	24 (384)	24 (384)
Compression Deflection						
10% Compression	lb/in <sup>2</sup> (kPa)	10 (70)	8 (56)	8 (56)	5 (35)	5 (35)
25% Compression	lb/in <sup>2</sup> (kPa)	20 (138)	17 (104)	17 (104)	10 (70)	10 (70)
Durometer ASTM-D2240 Shore A		60	58	58	55	55
Peel Adhesion (Modified ASTM-D3330)						
Non-linered side - Stainless Steel	oz/in (N/100mm)	55 (60)	30 (33)	30 (33)	30 (33)	30 (33)
Non-linered side - Composite Sleeve	oz/in (N/100mm)	65 (71)	28 (31)	28 (31)	28 (31)	28 (31)
Non-linered side - Polyester	oz/in (N/100mm)	50 (55)	35 (39)	35 (39)	35 (39)	35 (39)
Non-linered side - Urethane - A	oz/in (N/100mm)	75 (82)	50 (55)	50 (55)	50 (55)	50 (55)
Non-linered side - Urethane - B	oz/in (N/100mm)	70 (77)	35 (39)	35 (39)	35 (39)	35 (39)
Peel Adhesion (Modified ASTM-D3330)						
Linered side - Photopolymer	oz/in (N/100mm)	15 (16)	15 (16)	15 (16)	15 (16)	15 (16)
Solvent Resistance						
Water		Excellent	Excellent	Excellent	Excellent	Excellent
Alkanes		Excellent	Excellent	Excellent	Excellent	Excellent
Alcohols		Good	Good	Good	Good	Good
Acetates		Fair	Fair	Fair	Fair	Fair
Heat Resistance	°F (°C)	120 (49)	120 (49)	120 (49)	120 (49)	120 (49)

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**Storage** Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original carton.

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**Shelf Life** To obtain best performance, use this product within one year from date of manufacture.

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**Technical Information** The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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**ISO 9001**

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001 standards.

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