



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

L1815, L1820

L1715, L1720

L1515, L1520

L1015, L1020

L1315, L1320

L1915, L1915S, L1920S, L1920

L1215, L1220

L1115, L1120

Technical Data

March, 2017

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.

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

L1815 • L1715 • L1515 • L1015 • L1315 • L1915 • L1915S • L1215 • L1115

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		
	L1815	L1820	L1715	L1720	L1515	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)	0.015 (0.0381)	0.020 (0.508)	0.015 (0.0381)	0.020 (0.508)	0.015 (0.0381)	0.020 (0.508)
Thickness							
Tape	in (mm)	0.017 (0.432)	0.022 (0.559)	0.017 (0.432)	0.022 (0.559)	0.017 (0.432)	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)	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)	±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)	±0.0004 (±0.010)
Roll Length	yd (m)	25 (22.9)	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)	54 (1371.6)
Minimum Width	in (mm)	2 (50.8)	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)	±1/32 (±0.794)
Density	lb/ft³ (kg/m³)	32 (512)	32 (512)	30 (480)	30 (480)	29 (465)	29 (465)
Compression Deflection							
10% Compression	lb/in² (kPa)	35 (241)	35 (241)	30 (207)	30 (207)	26 (180)	26 (180)
25% Compression	lb/in² (kPa)	60 (414)	60 (414)	50 (345)	50 (345)	40 (276)	40 (276)
Durometer ASTM-D2240 Shore A		72	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)	55 (60)
Non-linered side - Composite Sleeve	oz/in (N/100mm)	65 (71)	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)	68 (75)
Non-linered side - Urethane - A	oz/in (N/100mm)	70 (77)	70 (77)	70 (77)	70 (77)	70 (77)	70 (77)
Non-linered side - Urethane - B	oz/in (N/100mm)	60 (66)	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)	15 (16)
Solvent Resistance							
Water		Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alkanes		Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohols		Good	Good	Good	Good	Good	Good
Acetates		Fair	Fair	Fair	Fair	Fair	Fair
Heat Resistance	°F (°C)	120 (49)	120 (49)	120 (49)	120 (49)	120 (49)	120 (49)

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

L1815 • L1715 • L1515 • L1015 • L1315 • L1915 • L1915S • L1215 • L1115
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		
	L1015	L1020	L1315	L1320	L1915	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)	0.015 (0.0381)	0.020 (0.508)	0.015 (0.0381)	0.020 (0.508)	0.015 (0.0381)	0.020 (0.508)
Thickness							
Tape	in (mm)	0.017 (0.432)	0.022 (0.559)	0.017 (0.432)	0.022 (0.559)	0.017 (0.432)	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)	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)	±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)	±0.0004 (±0.010)
Roll Length	yd (m)	25 (22.9)	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)	54 (1371.6)
Minimum Width	in (mm)	2 (50.8)	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)	±1/32 (±0.794)
Density	lb/ft³ (kg/m³)	28 (450)	28 (450)	27 (433)	27 (433)	26 (416)	26 (416)
Compression Deflection							
10% Compression	lb/in² (kPa)	15 (104)	15 (104)	12 (49)	12 (49)	10 (70)	10 (70)
25% Compression	lb/in² (kPa)	30 (207)	30 (207)	25 (172)	25 (172)	20 (138)	20 (138)
Durometer ASTM-D2240 Shore A		65	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)	55 (60)	30 (33)	30 (33)
Non-linered side - Composite Sleeve	oz/in (N/100mm)	65 (71)	65 (71)	65 (71)	65 (71)	28 (31)	28 (31)
Non-linered side - Polyester	oz/in (N/100mm)	60 (66)	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)	80 (88)	45 (50)	45 (50)
Non-linered side - Urethane - B	oz/in (N/100mm)	65 (71)	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)	15 (16)
Solvent Resistance							
Water		Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alkanes		Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohols		Good	Good	Good	Good	Good	Good
Acetates		Fair	Fair	Fair	Fair	Fair	Fair
Heat Resistance	°F (°C)	120 (49)	120 (49)	120 (49)	120 (49)	120 (49)	120 (49)

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

L1815 • L1715 • L1515 • L1015 • L1315 • L1915 • L1915S • L1215 • L1115

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		
	L1915S	L1920S	L1215	L1220	L1115	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)	0.015 (0.0381)	0.020 (0.508)	0.015 (0.0381)	0.020 (0.508)	0.015 (0.0381)	0.020 (0.508)
Thickness							
Tape	in (mm)	0.017 (0.432)	0.022 (0.559)	0.017 (0.432)	0.022 (0.559)	0.017 (0.432)	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)	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)	±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)	±0.0004 (±0.010)
Roll Length	yd (m)	25 (22.9)	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)	54 (1371.6)
Minimum Width	in (mm)	2 (50.8)	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)	±1/32 (±0.794)
Density	lb/ft³ (kg/m³)	26 (416)	26 (416)	25 (400)	25 (400)	24 (384)	24 (384)
Compression Deflection							
10% Compression	lb/in² (kPa)	10 (70)	10 (70)	8 (56)	8 (56)	5 (35)	5 (35)
25% Compression	lb/in² (kPa)	20 (138)	20 (138)	17 (104)	17 (104)	10 (70)	10 (70)
Durometer ASTM-D2240 Shore A		60	60	58	58	55	55
Peel Adhesion (Modified ASTM-D3330)							
Non-linered side - Stainless Steel	oz/in (N/100mm)	55 (60)	55 (60)	30 (33)	30 (33)	30 (33)	30 (33)
Non-linered side - Composite Sleeve	oz/in (N/100mm)	65 (71)	65 (71)	28 (31)	28 (31)	28 (31)	28 (31)
Non-linered side - Polyester	oz/in (N/100mm)	50 (55)	50 (55)	35 (39)	35 (39)	35 (39)	35 (39)
Non-linered side - Urethane - A	oz/in (N/100mm)	75 (82)	75 (82)	50 (55)	50 (55)	50 (55)	50 (55)
Non-linered side - Urethane - B	oz/in (N/100mm)	70 (77)	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)	15 (16)
Solvent Resistance							
Water		Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alkanes		Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Alcohols		Good	Good	Good	Good	Good	Good
Acetates		Fair	Fair	Fair	Fair	Fair	Fair
Heat Resistance	°F (°C)	120 (49)	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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Storage Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original carton.

Shelf Life To obtain best performance, use this product within two years from date of manufacture.

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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.



Industrial Adhesives and Tapes Division

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