



Cushion-Mount™ Plus Plate Mounting Tapes

1720M, 1015M, 1020M, 1015, 1020, 1020R
1920M, 1115, 1120

Technical Data

June 2017

Product Description

3M™ Cushion-Mount™ Plus Plate Mounting Tapes 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.

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.
- 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

1720M • 1015M • 1020M • 1015 • 1020 • 1020R • 1920M • 1115 • 1120

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 Medium Firm Combination Plate Mounting Tape	3M™ Cushion-Mount™ Plus Standard Combination Plate Mounting Tapes		3M™ Cushion-Mount™ Plus Standard Combination Plate Mounting Tapes	
		1720M	1015M	1020M	1015	1020
Adhesive		Differential Acrylate	Differential Acrylate		Differential Acrylate	
Polyethylene Carrier		Medium Firm Teal Foam	Standard White Foam		Standard White Foam	
Type of Printing		Combination of solid and line with tone reproduction and fine reverses	Combination of solid and line with tone reproduction and fine reverses		Combination of solids and tone reproduction where solids and process are equally important	
Application Thickness	in (mm)	0.020 (0.508)	0.015 (0.381)	0.020 (0.508)	0.015 (0.381)	0.020 (0.508)
Thickness						
Tape	in (mm)	0.022 (0.559)	0.017 (0.432)	0.022 (0.559)	0.017 (0.432)	0.022 (0.559)
Paper 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/ft³ (kg/m³)	30 (480)	28 (450)	28 (450)	28 (450)	28 (450)
Compression Deflection						
10% Compression	lb/in² (kPa)	30 (207)	15 (103)	15 (103)	15 (103)	15 (103)
25% Compression	lb/in² (kPa)	50 (345)	30 (207)	30 (207)	30 (207)	30 (207)
Durometer ASTM-D2240 Shore A		68	65	65	65	65
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)	60 (66)	60 (66)	60 (66)	60 (66)	60 (66)
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)	65 (71)	65 (71)	65 (71)	80 (87)	80 (87)
Linered side - Rubber	oz/in (N/100mm)	NA	NA	NA	NA	NA
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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Typical Physical Properties and Performance Characteristics

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Product		3M™ Cushion-Mount™ Plus Standard Combination Plate Mounting Tape	3M™ Cushion-Mount™ Plus Medium Soft Process Plate Mounting Tape	3M™ Cushion-Mount™ Plus Soft Process Plate Mounting Tape	
		1020R	1920M	1115	1120
Adhesive		Differential Acrylate	Differential Acrylate	Differential Acrylate	
Polyethylene Carrier		Standard White Foam	Medium Soft Pink Foam	Soft Tan 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	Tone reproduction where process printing is important	
Application Thickness	in (mm)	0.020 (0.508)	0.020 (0.508)	0.015 (0.381)	0.020 (0.508)
Thickness					
Tape	in (mm)	0.022 (0.559)	0.022 (0.559)	0.017 (0.432)	0.022 (0.559)
Paper Liner	in (mm)	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)
Typical Application Area Caliper Variation	in (mm)	±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)
Maximum Width	in (mm)	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)
Slitting Tolerance	in (mm)	±1/32 (±0.794)	±1/32 (±0.794)	±1/32 (±0.794)	±1/32 (±0.794)
Density	lb/ft³ (kg/m³)	28 (450)	26 (416)	24 (384)	24 (384)
Compression Deflection					
10% Compression	lb/in² (kPa)	15 (103)	10 (70)	5 (35)	5 (35)
25% Compression	lb/in² (kPa)	30 (207)	20 (138)	10 (70)	10 (70)
Durometer ASTM-D2240 Shore A		65	60	55	55
Peel Adhesion (Modified ASTM-D3330)					
Non-linered side - Stainless Steel	oz/in (N/100mm)	55 (60)	30 (33)	42 (46)	42 (46)
Non-linered side - Composite Sleeve	oz/in (N/100mm)	65 (71)	28 (31)	70 (77)	70 (77)
Non-linered side - Polyester	oz/in (N/100mm)	60 (66)	35 (39)	35 (39)	35 (39)
Non-linered side - Urethane - A	oz/in (N/100mm)	70 (77)	35 (39)	35 (39)	35 (39)
Non-linered side - Urethane - B	oz/in (N/100mm)	55 (60)	30 (33)	24 (27)	24 (27)
Peel Adhesion (Modified ASTM-D3330)					
Linered side - Photopolymer	oz/in (N/100mm)	68 (74)	65 (71)	65 (71)	65 (71)
Linered side - Rubber	oz/in (N/100mm)	30 (33)	NA	NA	NA
Solvent Resistance					
Water		Excellent	Excellent	Excellent	Excellent
Alkanes		Excellent	Excellent	Excellent	Excellent
Alcohols		Good	Good	Good	Good
Acetates		Fair	Fair	Fair	Fair
Heat Resistance	°F (°C)	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.
Shelf Life	To obtain best performance, use all products, except 3M™ Cushion-Mount™ Plus Plate Mounting Tapes 1040 and 1060, within two years from date of manufacture. For 3M™ Cushion-Mount™ Plus Plate Mounting Tapes 1040 and 1060 use within one year from date of manufacture.
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ISO 9001

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