



Cushion-Mount™ Plus Easy Mount Tapes with High Plateside Adhesion

E1815H, E1820H

E1715H, E1720H

E1515H, E1520H

E1015H, E1020H, E1040H, E1060H

E1315H, E1320H

E1915H, E1920H, E1920HS

E1215H, E1220H,

E1115H, E1120H

Technical Data

July, 2009

Product Description

3M™ Cushion-Mount™ Plus Easy Mount Tapes with High Plateside Adhesion 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.
- 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 with high plateside adhesion 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 Easy Mount Tapes with High Plateside Adhesion

E1815H • E1820H • E1715H • E1720H • E1515H • E1520H • E1015H • E1020H • E1040H • E1060H
 E1315H • E1320H • E1915H • E1920H • E1920HS • E1215H • E1220H • E1115H • E1120H

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 Printing Tapes		3M™ Cushion-Mount™ Plus Medium Firm Combination Printing Tapes		3M™ Cushion-Mount™ Plus Medium Combination Printing Tapes		
	E1815H	E1820H	E1715H	E1720H	E1515H	E1520H	
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 (0.381)	0.020 (0.508)	0.015 (0.381)	0.020 (0.508)	0.015 (0.381)	0.020 (0.508)
Thickness							
Tape	in (mm)	0.017 (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)	60 (66)	60 (66)	60 (66)	60 (66)	60 (66)	60 (66)
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 Easy Mount Tapes with High Plateside Adhesion

E1815H • E1820H • E1715H • E1720H • E1515H • E1520H • E1015H • E1020H • E1040H • E1060H
 E1315H • E1320H • E1915H • E1920H • E1920HS • E1215H • E1220H • E1115H • E1120H

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

Product	3M™ Cushion-Mount™ Plus Standard Combination Printing Tapes		3M™ Cushion-Mount™ Plus Standard Combination Printing Tapes		3M™ Cushion-Mount™ Plus Medium Soft Process Printing Tapes		
	E1015H	E1020H	E1040H	E1060H	E1315H	E1320H	
Adhesive	Differential Acrylate		Differential Acrylate		Differential Acrylate		
Polyethylene Carrier	Standard White Foam		Standard White Foam		Medium Soft Yellow Foam		
Type of Printing	Combination of solids and tone reproduction where solids and process are equally important		Combination of solids and tone reproduction where solids and process are equally important		Combination of solids and tone reproduction where process printing is important		
Application Thickness	in (mm)	0.015 (0.381)	0.020 (0.508)	0.040 (1.016)	0.060 (1.524)	0.015 (0.381)	0.020 (0.508)
Thickness							
Tape	in (mm)	0.017 (0.432)	0.022 (0.559)	0.042 (1.017)	0.062 (1.525)	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)	50 ft. (15.4)	50 ft. (15.4)	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)	28 (450)	28 (450)	27 (433)	27 (433)
Compression Deflection							
10% Compression	lb/in² (kPa)	15 (104)	15 (104)	15 (104)	15 (104)	12 (49)	12 (49)
25% Compression	lb/in² (kPa)	30 (207)	30 (207)	25 (172)	25 (172)	25 (172)	25 (172)
Durometer ASTM-D2240 Shore A		65	65	40	38	63	63
Peel Adhesion (Modified ASTM-D3330)							
Non-linered side - Stainless Steel	oz/in (N/100mm)	55 (60)	55 (60)	55 (60)	65 (71)	55 (60)	55 (60)
Non-linered side - Composite Sleeve	oz/in (N/100mm)	65 (71)	65 (71)	58 (63)	65 (71)	65 (71)	65 (71)
Non-linered side - Polyester	oz/in (N/100mm)	60 (66)	60 (66)	55 (60)	65 (71)	60 (66)	60 (66)
Non-linered side - Urethane - A	oz/in (N/100mm)	80 (88)	80 (88)	70 (77)	80 (88)	80 (88)	80 (88)
Non-linered side - Urethane - B	oz/in (N/100mm)	65 (71)	65 (71)	50 (55)	55 (60)	65 (71)	65 (71)
Peel Adhesion (Modified ASTM-D3330)							
Linered side - Photopolymer	oz/in (N/100mm)	60 (66)	60 (66)	45 (50)	35 (38)	60 (66)	60 (66)
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 Easy Mount Tapes with High Plateside Adhesion

E1815H • E1820H • E1715H • E1720H • E1515H • E1520H • E1015H • E1020H • E1040H • E1060H
 E1315H • E1320H • E1915H • E1920H • E1920HS • E1215H • E1220H • E1115H • E1120H

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 Printing Tapes		3M™ Cushion-Mount™ Plus Light Medium Combination Printing Tape	3M™ Cushion-Mount™ Plus Light Combination Printing Tapes		
	E1915H	E1920H	E1920HS	E1215H	E1220H	
Adhesive	Differential Acrylate		Differential Acrylate	Differential Acrylate		
Polyethylene Carrier	Light Medium Pink Foam		Light Medium Pink Foam	Light Orange		
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	Combination of solids and tone reproduction where process printing is important		
Application Thickness	in (mm)	0.015 (0.381)	0.020 (0.508)	0.020 (0.508)	0.015 (0.381)	0.020 (0.508)
Thickness						
Tape	in (mm)	0.017 (0.432)	0.022 (0.559)	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)
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)	26 (416)	26 (416)	26 (416)	25 (400)	25 (400)
Compression Deflection						
10% Compression	lb/in² (kPa)	10 (70)	10 (70)	10 (70)	8 (56)	8 (56)
25% Compression	lb/in² (kPa)	20 (138)	20 (138)	20 (138)	17 (104)	17 (104)
Durometer ASTM-D2240 Shore A		60	60	60	58	58
Peel Adhesion (Modified ASTM-D3330)						
Non-linered side - Stainless Steel	oz/in (N/100mm)	30 (33)	30 (33)	55 (60)	30 (33)	30 (33)
Non-linered side - Composite Sleeve	oz/in (N/100mm)	28 (31)	28 (31)	65 (71)	28 (31)	28 (31)
Non-linered side - Polyester	oz/in (N/100mm)	35 (39)	35 (39)	50 (55)	35 (39)	35 (39)
Non-linered side - Urethane - A	oz/in (N/100mm)	45 (50)	45 (50)	75 (82)	50 (55)	50 (55)
Non-linered side - Urethane - B	oz/in (N/100mm)	35 (39)	35 (39)	70 (77)	35 (39)	35 (39)
Peel Adhesion (Modified ASTM-D3330)						
Linered side - Photopolymer	oz/in (N/100mm)	60 (66)	60 (66)	60 (66)	60 (66)	60 (66)
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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 E1315H • E1320H • E1915H • E1920H • E1920HS • E1215H • E1220H • E1115H • E1120H

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 Process Printing Tapes	
		E1115H	E1120H
Adhesive		Differential Acrylate	
Polyethylene Carrier		Soft Tan Foam	
Type of Printing		Tone reproduction where where process printing is important	
Application Thickness	in (mm)	0.015 (0.381)	0.020 (0.508)
Thickness			
Tape	in (mm)	0.017 (0.432)	0.022 (0.559)
Film Liner	in (mm)	0.0045 (0.114)	0.0045 (0.114)
Lot to Lot Tolerance	in (mm)	±0.0015 (±0.038)	±0.0015 (±0.038)
Typical Application Area Caliper Variation	in (mm)	±0.0004 (±0.010)	±0.0004 (±0.010)
Roll Length	yd (m)	25 (22.9)	25 (22.9)
Maximum Width	in (mm)	54 (1371.6)	54 (1371.6)
Minimum Width	in (mm)	2 (50.8)	2 (50.8)
Slitting Tolerance	in (mm)	±1/32 (±0.794)	±1/32 (±0.794)
Density	lb/ft³ (kg/m³)	24 (384)	24 (384)
Compression Deflection			
10% Compression	lb/in² (kPa)	5 (35)	5 (35)
25% Compression	lb/in² (kPa)	10 (70)	10 (70)
Durometer ASTM-D2240 Shore A		55	55
Peel Adhesion (Modified ASTM-D3330)			
Non-linered side - Stainless Steel	oz/in (N/100mm)	30 (33)	30 (33)
Non-linered side - Composite Sleeve	oz/in (N/100mm)	28 (31)	28 (31)
Non-linered side - Polyester	oz/in (N/100mm)	35 (39)	35 (39)
Non-linered side - Urethane - A	oz/in (N/100mm)	50 (55)	50 (55)
Non-linered side - Urethane - B	oz/in (N/100mm)	35 (39)	35 (39)
Peel Adhesion (Modified ASTM-D3330)			
Linered side - Photopolymer	oz/in (N/100mm)	60 (66)	60 (66)
Solvent Resistance			
Water		Excellent	Excellent
Alkanes		Excellent	Excellent
Alcohols		Good	Good
Acetates		Fair	Fair
Heat Resistance	°F (°C)	120 (49)	120 (49)

3M™ Cushion-Mount™ Plus Easy Mount Tapes with High Plateside Adhesion

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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 one year from date of manufacture.

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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This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



Industrial Adhesives and Tapes Division

3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-3550 • 877-369-2923 (Fax)
www.3M.com/flexo



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