



Cushion-Mount™ Plus Tapes with Easy Mount Adhesive

Standard Combination Printing Tape E1015, E1020

Soft Combination Printing Tape E1915, E1920

Process Printing Tape E1115, E1120

Technical Data

November, 2003

Product Description

3M™ Standard Combination Printing Tape E1015 and E1020 are a double coated, standard combination printing foam tape constructed of a differential acrylic adhesive system on white colored, standard polyethylene foam.

3M™ Soft Combination Printing Tape E1915 and E1920 are a double coated soft combination printing foam tape constructed of a differential acrylic adhesive system on pink colored, soft polyethylene foam.

3M™ Process Printing Tape E1115 and E1120 are a double coated, process printing foam tape constructed of a differential acrylic adhesive system on peach colored, very soft polyethylene foam.

The adhesive on the non-liner side of the tape is designed and formulated for mounting to flexographic printing cylinders or sleeves. The cylinder side adhesive is formulated for easy application at mounting and clean removability when demounting.

The adhesive on the liner side of the tape is designed for mounting flexographic printing plates. The plate side adhesive is formulated for easy application during mounting, excellent holding power on-press and easy, clean plate removal when demounting.

The foam carriers are designed for combination and process printing.

These products use the 3M™ Easy Mount Liner, which create 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 between the tape and cylinder/sleeve and between the tape and plate.

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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 Standard Combination Printing Tapes		3M™ Cushion-Mount™ Plus Soft Combination Printing Tapes		3M™ Cushion-Mount™ Plus Process Printing Tapes	
		E1015	E1020	E1915	E1920	E1115	E1120
Adhesive		Differential Acrylate		Differential Acrylate		Differential Acrylate	
Carrier		Standard Polyethylene Foam – White		Soft Polyethylene Foam – Pink		Very Soft Polyethylene Foam – Peach	
Type of Printing		Combination of solids and tone reproduction were solids and process are equally important		Combination of process with minimal solids		High quality process and tone	
Type of Plate		Photopolymer		Photopolymer		Photopolymer	
Thickness Tape	in (mm)	0.017 (0.432)	0.022 (0.599)	0.017 (0.432)	0.022 (0.599)	0.017 (0.432)	0.022 (0.599)
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 (±0.011)	±0.0004 (±0.011)	±0.0004 (±0.011)	±0.0004 (±0.011)	±0.0004 (±0.011)	±0.0004 (±0.011)
Roll Length	yd. (m)	25 (22.9)	25 (22.9)	25 (22.9)	25 (22.9)	25 (22.9)	25 (22.9)
Master Width	in (mm)	54 (1371.6)	54 (1371.6)	54 (1371.6)	54 (1371.6)	54 (1371.6)	54 (1371.6)
Slitting Tolerance	in (mm)	±1/32 (±0.795)	±1/32 (±0.795)	±1/32 (±0.795)	±1/32 (±0.795)	±1/32 (±0.795)	±1/32 (±0.795)
Density	lb/in³ (kg/m³)	28 (450)	28 (450)	26 (416)	26 (416)	24 (384)	24 (384)
Compression Deflection 10% Compression	lb/in² (kPa)	12 (82)	12 (82)	10 (70)	10 (70)	6 (42)	6 (42)
25% Compression	lb/in² (kPa)	21 (145)	21 (145)	15 (104)	15 (104)	10 (70)	10 (70)
Durometer ASTM-D3330 Shore A		58	58	54	54	50	50
Peel Adhesion ASTM-D3330							
Non-lined side - Stainless Steel	oz/in (N/100mm)	55 (60)	55 (60)	30 (33)	30 (33)	30 (33)	30 (33)
Non-lined side - Non-Compressible Sleeve	oz/in (N/100mm)	40 (44)	40 (44)	20 (22)	20 (22)	20 (22)	20 (22)
Lined side - Photopolymer	oz/in (N/100mm)	25 (28)	25 (28)	25 (28)	25 (28)	25 (28)	25 (28)
Lined side - Rubber	oz/in (N/100mm)	NA	NA	NA	NA	NA	NA
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)

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Features

- Adhesive on the non-linered side of the tape is designed and formulated for mounting to flexographic printing cylinders or sleeves.
- Adhesive on the lined side of the tape is designed for mounting flexographic printing plates.
- Both adhesive systems are formulated for clean removability from both the plate and the print cylinder.

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.

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-362-3550 or visit www.3M.com/industrialtape. Address correspondence to: 3M Industrial Adhesives and Tapes Division, Building 21-1W-10, 900 Bush Avenue, St. Paul, MN 55144-1000. Our fax number is 651-778-4244. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

Product Use

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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 Business
Industrial Adhesives and Tapes Division**

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