



# **Technical Data Sheet**

3M™ Cushion-Mount™ Plus Plate Mounting Tapes with Easy Mount Adhesive E1040





**English-US** 

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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.

## **Product Features**

- Offers a complete range of foam densities providing excellent print guality 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 linered 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-linered 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.

#### **Technical Information Note**

The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

## **Typical Physical Properties**

Attribute Name	Test Method	Value
Adhesive Type		Differential Acrylate
Density	ASTM D3574	450 kg/m³ (28 lb/ft³) ¹
Shore A Hardness	ASTM D2240	40
Adhesive Carrier		Standard White Foam
Application Thickness		1.016 mm (40 mil)
Film Thickness		0.114 mm (4.5 mil)
Total Tape Thickness	ASTM D3652	1.017 mm (42 mil)
Lot to Lot Tolerance		± 0.038 mm (± 1.5 mil)
Typical Application Area Caliper		+ 0.01 mm (+ 0.4 mil)
Variation		± 0.01 mm (± 0.4 mil)
Compression Deflection: 10%		104 kPa (15 lb/in2)
Compression		104 kPa (15 lb/in²)
Compression Deflection: 25%		172 kPa (25 lb/in2)
Compression		172 kPa (25 lb/in²)
Type of Printing		Combination of solid and line with tone
		reproduction where solids and process
		are equally important
Thickness: Nominal		х

<sup>&</sup>lt;sup>1</sup> Foam with adhesive

## **Typical Performance Characteristics**

#### 90° Peel Adhesion

Temperature: 22 °C (72 °F)
Test Condition: Non-Linered Side
Test Method: ASTM D3330

Substrate	Value
Composite Sleeve	6.3 N/cm (58 oz/in) <sup>1</sup>
Photopolymer	2 N/cm (18 oz/in) <sup>2</sup>
Polyester (PET)	6 N/cm (55 oz/in) <sup>1</sup>
Stainless Steel	6 N/cm (55 oz/in) <sup>1</sup>
Urethane - A	7.7 N/cm (70 oz/in) <sup>1</sup>
Urethane - B	5.5 N/cm (50 oz/in) <sup>1</sup>

<sup>1 12</sup> in/min (300 mm/min)

<sup>&</sup>lt;sup>2</sup> Linered

Attribute Name	Value
Temperature Resistance	49 °C (120 °F)

## **Typical Environmental Performance**

Attribute Name	Value
	Water - Excellent
Calvent Resistance	Alkanes - Excellent
Solvent Resistance	Alcohols - Good
	Acetates - Fair

## Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 12 months from date of manufacture.

#### **Available Sizes**

Attribute Name	Value
Maximum Available Width	1371.6 mm (54 in)
Minimum Available Width	50.8 mm (2 in)
Normal Slitting Tolerance	± 0.794 mm (± 1/32 in)
Standard Roll Length	15.4 m (50 ft)

## Information

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## **ISO Statement**

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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