

March, 2017

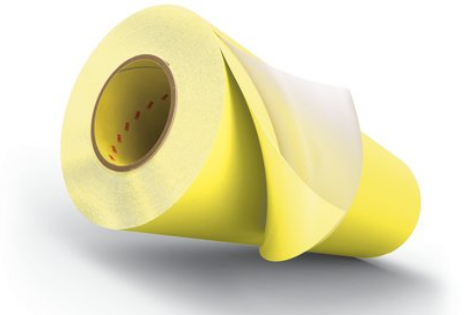
3M™ Cushion-Mount™ Plus Plate Mounting Tapes with Easy Mount Adhesive L1320

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.

Product 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.



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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

| Property | Values | |
|--|---|-----------------------|
| Tape Thickness | 0.559 mm | 22 mil |
| Application Thickness | 0.508 mm | 20 mil |
| Film Thickness | 0.114 mm | 4.5 mil |
| Lot to Lot Tolerance | ± 0.038 mm | ± 1.5 mil |
| Typical Application Area Caliper Variation | ± 0.01 mm | ± 0.4 mil |
| Adhesive | Differential Acrylate | |
| Adhesive Carrier | Medium Soft Yellow Foam | |
| Density | 433 kg/m ³ | 27 lb/ft ³ |
| Type of Printing | Combination of solids and tone reproduction where process printing is important | |
| Compression Deflection: 10% Compression | 49 kPa | 12 lb/in ² |
| Compression Deflection: 25% Compression | 172 kPa | 25 lb/in ² |

| Peel Adhesion (Non-linered side) | | Substrate |
|----------------------------------|----------|------------------|
| 6 N/cm | 55 oz/in | Stainless Steel |
| 7.1 N/cm | 65 oz/in | Composite Sleeve |
| 6.6 N/cm | 60 oz/in | Polyester (PET) |
| 8.8 N/cm | 80 oz/in | Urethane - A |
| 7.1 N/cm | 65 oz/in | Urethane - B |

Property: Peel Adhesion (Non-linered side)
Method: ASTM D3330 (modified)

Typical Cured Characteristics

Shore A Hardness: 63

Methods

ASTM D2240

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Typical Performance Characteristics

| Property | Values | | Method | Substrate |
|----------------------------|----------|----------|-----------------------|--------------|
| Peel Adhesion (Lined Side) | 1.6 N/cm | 15 oz/in | ASTM D3330 (modified) | Photopolymer |
| Heat Resistance | 49 °C | 120 °F | | |

Solvent Resistance

Water - Excellent
Alkanes - Excellent
Alcohols - Good
Acetates - Fair

Available Sizes

| Property | Values | |
|---------------------------|------------|-----------|
| Standard Roll Length | 22.9 m | 25 yd |
| Minimum Available Width | 50.8 mm | 2 in |
| Maximum Available Width | 1371.6 mm | 54 in |
| Normal Slitting Tolerance | ± 0.794 mm | ± 1/32 in |

Storage and Shelf Life

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% relative humidity in the original carton. To obtain best performance, use this product within two years from date of manufacture.

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Information

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References

Safety Data Sheet (SDS)

https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=L1320

Family Group

| | L1815 | L1715 | L1720 | L1515 | L1520 | L1015 | L1020 | L1315 | L1820 | L1915 | L1920 | L1915S | L1920S |
|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Tape Thickness (mm) | 0.432 | 0.432 | 0.559 | 0.432 | 0.559 | 0.432 | 0.559 | 0.432 | 0.559 | 0.432 | 0.559 | 0.432 | 0.559 |
| Application Thickness (mm) | 0.381 | 0.381 | 0.508 | 0.381 | 0.508 | 0.381 | 0.508 | 0.381 | 0.508 | 0.381 | 0.508 | 0.381 | 0.508 |
| Film Thickness (mm) | 0.114 | 0.114 | 0.114 | 0.114 | 0.114 | 0.114 | 0.114 | 0.114 | 0.114 | 0.114 | 0.114 | 0.114 | 0.114 |
| Adhesive | Differential Acrylate | Differential Acrylate | Differential Acrylate | Differential Acrylate | Differential Acrylate | Differential Acrylate | Differential Acrylate | Differential Acrylate | Differential Acrylate | Differential Acrylate | Differential Acrylate | Differential Acrylate | Differential Acrylate |

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Family Group (continued)

| | L1815 | L1715 | L1720 | L1515 | L1520 | L1015 | L1020 | L1315 | L1820 | L1915 | L1920 |
|------------------|--|--|--|--|--|--|--|---|--|---|---|
| Adhesive Carrier | Firm Blue Foam | Medium Firm Teal Foam | Medium Firm Teal Foam | Medium Purple Foam | Medium Purple Foam | Standard White Foam | Standard White Foam | Medium Soft Yellow Foam | Firm Blue Foam | Light Medium Pink Foam | Light Medium Pink Foam |
| Shore A Hardness | 72 | 68 | 68 | 67 | 67 | 65 | 65 | 63 | 72 | 60 | 60 |
| 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 | 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 | 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 solid and line with minimal tone reproduction | Combination of solids and tone reproduction where process printing is important | Combination of solids and tone reproduction where process printing is important |

ISO Statement

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



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