

March, 2017

# 3M™ Cushion-Mount™ Plus Plate Mounting Tapes with Easy Mount Adhesive L1220

### **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 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**

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	Light Orange Foam				
Density	400 kg/m³	25 lb/ft³			
Type of Printing	Combination of solids and tone reproduction where process printing is important				
Compression Deflection: 10% Compression	56 kPa	8 lb/in²			
Compression Deflection: 25% Compression	104 kPa	17 lb/in²			

Peel Adhesion (Non-linered side)		Substrate				
3.3 N/cm	30 oz/in	Stainless Steel				
3.1 N/cm	28 oz/in	Composite Sleeve				
3.9 N/cm	35 oz/in	Polyester (PET)				
5.5 N/cm	50 oz/in	Urethane - A				
3.9 N/cm	35 oz/in	Urethane - B				

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

# **Typical Cured Characteristics**

**Shore A Hardness:** 58

Methods ASTM D2240

# **Typical Performance Characteristics**

Property	Values Meth		Method	Substrate	
Peel Adhesion (Linered 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.

#### Information

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#### **Trademarks**

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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=L1220

#### **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	Differen tial 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	Combinati on of solid and line with minimal tone reproducti on	Combinati on of solid and line with tone reproducti on and fine reverses	Combinati on of solids and tone reproducti on where solids and process are equally important	Combinati on of solids and tone reproducti on where solids and process are equally important	Combinati on of solids and tone reproducti on where process printing is important	Combinati on of solid and line with minimal tone reproducti on	Combinati on of solids and tone reproducti on where process printing is important	Combinati on of solids and tone reproducti on 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.