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3M™ Textured Vinyl Durable Label Material FV024908

Product Description

3M™ Textured Vinyl Durable Label Materials are flexible and conformable clear vinyl label stocks that offer durability and moisture resistance. These vinyl labels utilize 3M™ Adhesive P1212 which is a high clarity general purpose acrylic emulsion that exhibits good initial tack, excellent die cutting properties, minimal cold flow, and good UV resistance.



Product Features

- Good moisture and abrasion resistance.
- The polymerically plasticized nature of this soft flexible vinyl imparts long term dimensional stability for demanding applications.
- Meets CONEG requirements.
- Adhesive dry ingredients are listed by FDA as indirect food contact additives when used in food packaging with minimum opportunity for exposure. See 21 CFR 175.105
- Cost effective alternative to velvet lexan for labels intended for indoor use.
- Liner for 3M label product FV024908 has excellent caliper control and strength making it ideal for high speed labeling applications.

Technical Information Note

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

Construction Tested

Adhesion properties determined per TLMI Method using 1.0 mil polyester with 1.0 mil of adhesive on a polished stainless steel panel.

Typical Physical Properties

Property	Values	
Facestock	Clear Textured Vinyl NTC	
Facestock Thickness	0.13 mm	5 mil
Adhesive	P1212 Perm. 18	
Liner	44# Poly/Kraft liner where polypropylene has been laminated to a 44# brown kraft sheet	
Liner Thickness	0.079 mm	3.1 mil
Adhesive Coat Weight	1.58 to 1.93 g/100 in²	

Convertability

3M™ General Purpose Acrylic Adhesive P1212 is designed to be compatible with a variety of print methods and indoor end use applications. Adhesive processing issues are not anticipated when proper roll tensions, handling and storage conditions are used. Please refer to the die cutting/converting section of this data page or the “Guide to Converting and Handling Label Products” technical bulletin for additional information.

Note

Calipers are nominal values

Typical Performance Characteristics

Property	Values		Method	Environmental Condition	Substrate	Notes	Temp C	Temp F
Service Temperature Range	-29 to 60 °C	-20 to 140 °F						
Application Temperature	15 to 49 °C	40 to 120 °F						
180° Peel Adhesion	5.28 N/cm		TLMI	52%RH	Stainless Steel	12 in/min (300 mm/min)		

Table continued on next page

Typical Performance Characteristics (continued)

Property	Values		Method	Environmental Condition	Substrate	Notes	Temp C	Temp F
180° Peel Adhesion	48 oz/in		TLMI	52%RH	Stainless Steel	12 in/min (300 mm/min)	22C	72F
Loop Tack	3.16 N/cm	28.8 oz/in	TLMI			12 in/min, 1 in wide sample		
Shear Adhesion	3 hr		TLMI			0.25 in² x 500g		
Liner Release	15 to 50 g/2 in		TLMI			180° removal, 300 in/min		

Handling/Application Information

Application Ideas

Decorative overlaminate for labels on durable goods, power tools, equipment and machinery.

Application Techniques

For maximum bond strength, surface should be clean and dry. A typical cleaning solvent is heptane or isopropyl alcohol. Note: Consult the manufacturer’s MSDS for proper handling and storage of solvents. For best conditions, application surface should be at room temperature or higher. Low temperature surfaces (below 10°F [-12°C]) can cause the adhesive to become so firm that it will not develop contact with the substrate. Higher initial bonds are achieved through increased rub down pressure.

Printing

This film is not treated for printability.

Storage and Shelf Life

Store under normal conditions of 70°F (21°C) and 50% relative humidity. To minimize the effects of humidity on the products, package the die-cut and printed stock in polyethylene bags. Low density polyethylene (2-4 mils) can help prevent humidity penetration. To obtain best performance, use this product within 24 months from the date of manufacture.

Industry Specifications

Meets CONEG requirements
FDA 21 CFR 175.105

Trademarks

3M is a trademark of 3M Company.

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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=FV024908

Family Group

	FV024908	FV02490N	FV02800N
Facestock	Clear Textured Vinyl NTC	Clear Textured Vinyl NTC	Clear Textured Vinyl NTC
Facestock Thickness (mm)	0.13	0.13	0.1
Adhesive	P1212 Perm. 18	P1212 Perm. 18	P1212 Perm. 18
Liner	44# Poly/Kraft liner where polypropylene has been laminated to a 44# brown kraft sheet	Clear Polyester	Clear Polyester
Liner Thickness (mm)	0.079	0.038	0.038

ISO Statement

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

Information

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