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# 3M™ Durable Tire Label Material FV052

## Product Description

3M™ Durable Tire Label Material FV052 is a white vinyl label stock that offers durability and conformability. It utilizes 3M™ Adhesive P1110, which is designed for labeling tires when used with tire wash. This adhesive exhibits high initial tack, yet resists edge bleed and cold flow.



## Product Features

- 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).
- Liner is designed for high-speed die cutting and matrix stripping. Not recommended for sheet on press applications.

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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.

## 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	Soft White Vinyl TC2	
Facestock Thickness	0.089 mm	3.5 mil
Adhesive	P1110 Perm. 26	
Liner	50# SC semi-bleached super calendered kraft sheet	
Liner Thickness	0.079 mm	3.1 mil
Adhesive Coat Weight	2.5 g/100 in <sup>2</sup> ± 10%	

## Note

Calipers are nominal values

## Typical Performance Characteristics

Property	Values		Method	Notes
Application Temperature	13 to 43 °C	55 to 110 °F		

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## Typical Performance Characteristics (continued)

Property	Values		Method	Notes
Service Temperature Range	5 to 68 °C	40 to 155 °F		
180° Peel Strength	7.04 N/cm	64 oz/in	TLMI	12 in/min, 1 in wide sample
Loop Tack	7.04 N/cm	64 oz/in	TLMI	12 in/min, 1 in wide sample
Shear	5 hr		TLMI	0.25 in <sup>2</sup> x 500g
Release Range	15 to 50 g/2 in		TLMI	180° removal, 300 in/min

## Handling/Application Information

### Application Ideas

- Retread tires
- Waxy surfaces
- UV coated corrugated

### Printing

Semi-gloss vinyl topcoating designed for use on tire label products. For use with water-based flexo film inks.

### 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 two years from date of manufacture.

### Industry Specifications

Meets CONEG requirements  
FDA 21 CFR 175.105

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## References

1. Safety Data Sheet

Url: [https://www.3m.com/3M/en\\_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en\\_US&co=ptn&q=FV052](https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=FV052)

## ISO Statement

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

## Technical Information

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