



White Vinyl Label Material

7600

FOD# 0903

page 1 of 3

Technical Data

January 1, 1999

Supersedes April 1, 1996

Construction	Facestock	Adhesive	Liner
	3.8 mils (96 microns)	1.0 mil (25 microns)	2.5 mils (63 microns)
	Soft gloss white topcoated vinyl	#500 high-stability acrylic	#43 super calendared kraft – easy release

Features

- Conformable to contoured surfaces
- Resists wrinkling and delamination
- One piece removal up to one year after application.
- Topcoated for improved anchorage.
- The #500 high stability acrylic adhesive provides excellent adhesion to a variety of surfaces including stainless steel, polycarbonate and polypropylene.

Application Ideas

- Labeling of small or irregular shaped containers.
- Labels requiring long term bond and one piece removal.

Typical Physical Properties and Performance Characteristics

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

Adhesion: 180° Peel (ASTM 3330)

Surface	Initial - 10 minute dwell		Conditioned for 3 days at room temperature	
	oz./in.	N/100 mm	oz./in.	N/100 mm
Stainless Steel	29	32	43	47
Polycarbonate	46	50	64	70
Polypropylene	31	34	37	40
Glass	38	42	47	51
HDPE	13	14	21	23
LDPE	12	13	18	20

Surface	Conditioned for 3 days at 120°F; 24 hour RT dwell prior to exposure; 1 hour RT dwell before testing		Conditioned for 24 hours at 120°F; 24 hour RT dwell prior to exposure; 1 hour RT dwell before testing.	
	oz./in.	N/100 mm	oz./in.	N/100 mm
Stainless Steel	56	61	54	59
Polycarbonate	51	56	51	56
Polypropylene	42	46	44	48
Glass	56	61	57	62
HDPE	33	36	32	35
LDPE	35	38	32	35

Liner Release: 180° Liner Removal

Rate of Removal

Grams/inch Width

90 in./min.	6.5
300 in./min.	4.9
1200 in./min.	15.7

Environmental Performance

Note: The following tests are intended to be a guide to product performance. Application testing is recommended using actual substrates, expected dwell times, and actual conditioning for determination of product suitability.

The properties defined are based on four hour immersions at room temperature, unless otherwise noted. Samples were applied to stainless steel 24 hours prior to immersions and were evaluated one hour after removal.

Chemical	Evaluation	Edge Penetration
Isopropyl Alcohol	No change in appearance or adhesion	<1 mm
Detergent	No change in appearance or adhesion	0 mm
Engine Oil at 250°F (121°C)	No appearance change; noticeable adhesion increase	<1 mm
Water for 48 hours	No change in appearance or adhesion	0 mm
Temperature resistance:	250°F (121°C) for 24 hours: Yellowed; 3% shrinkage CD 175°F (79°C) for 24 hours: No appearance change; <1% shrinkage CD	
Humidity resistance:	100°F (38°C) at 100% relative humidity for 24 hours: No change 150°F (66°C) at 80% relative humidity for 4 days: Slight shrinkage	
Shelf life:	One year from date of manufacture of material if properly stored at 72°F (22°C) and 50% relative humidity.	

Processing

Printing:

- Topcoated for improved ink anchorage.
- Refer to the Graphic Ink Selection Guide or call Customer Service for recommendations at 1-800-328-1681.

Die-cutting:

- Rotary or flatbed.

Special Considerations

- For maximum bond strength, surface should be thoroughly cleaned and dried. A typical cleaning solvent is heptane or isopropyl alcohol.*

* Note: Follow the manufacturer’s precautions and directions for use when using solvents.

- For best bonding conditions, application surface should be at room temperature or higher. Low temperature surfaces, below 50°F (10°C), cause the adhesive to become firm and will not allow it to flow and develop intimate contact with the substrate.
- Higher initial bonds can be achieved through increased rubdown pressure. Use maximum laminating pressure for best results.

Technical Information and Data

The technical information and data, recommendations, and other statements provided are based on tests or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Warranty and Limited Remedy

The 3M product will be free from defects in material and manufacture for a period of one (1) year from the date of manufacture. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. If the 3M product is defective within the warranty period stated above, your exclusive remedy and 3M's sole obligation shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product.

Limitation of Remedies and Liability

Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including contract, warranty, negligence, or strict liability.



This Industrial Tape and Specialties Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



Industrial Tape and Specialties Division

3M Center, Building 220-7W-03
St. Paul, MN 55144-1000
USA
1 800 362 3550
1 800 223 7427 Fax On Demand
www.3M.com