



# Computer Imprintable Destructible Vinyl Label Material 7885

Technical Data

May, 2002

## Product Description

3M™ Label Material 7885 matte white computer imprintable destructible vinyl product with 3M™ Adhesive 200 meets the requirements of permanent marking applications on metals, high surface energy plastics and a variety of paints. The matte surface increases ink adhesion and print durability. It accepts imprinting of variable information using impact dot matrix printers, typewriters, ballpoint pens, pencils and grease pens.

## Construction

| Facestock   | Adhesive   | Liner   |
|---|--|---|
| 2.2 mil (56 microns)<br>matte white<br>destructible vinyl | 0.8 mil (20 microns)<br>200 high performance acrylic | 3.2 mil (81 microns)<br>50# densified kraft<br>easy release |

## 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.**

|  |   |
|--|---|
| <b>Conformability</b>                  | Conforms to small diameter simple curved surfaces. Some conformability to large diameter compound curved surfaces.  |
| <b>Printing</b>                        | Flexographic, letterpress, offset, dot matrix impact, ballpoint pens, pencils and grease pens.  |
| <b>Temperature Range</b>               | -40°F (-40°C) to 175°F (79°C)<br>Up to 200°F (93°C) for intermittent periods  |
| <b>Minimum Application Temperature</b> | 50°F (10°C)   |
| <b>Autoclave</b>                       | Remains intact  |
| <b>Abrasion</b>                        | Passes 300 cycles of Taber Abrasion test with CS-10 wheels and 500 gram load without affecting imprinted alphanumeric characters.   |
| <b>Die-Cutting</b>                     | Due to the fragile nature of the facestock, special handling (wider label matrix and wider edge trim to aid matrix stripping) should be considered when designing and processing. For specific tips see the EAD Tech Bulletin "Die-cutting Fragile Label Stocks." |
| <b>Dispensibility</b>                  | Fragile facestocks present some difficulties for automatic dispensing. Testing with the intended application equipment and actual product samples is recommended.   |

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## Environmental Performance

Samples were applied to stainless steel panels and allowed to dwell for 24 hours prior to exposures.

| Liquid                             | Dwell Time/Exposure Condition | Results                               |
|------------------------------------|-------------------------------|---------------------------------------|
| Engine Oil (10W30) @ 250°F (121°C) | After 4 hours                 | Slight Yellowing                      |
| Gasoline – R.T.                    | After 4 hours                 | Not recommended                       |
| Engine Coolant 200°F (93°C)        | After 4 hours                 | No effect                             |
| Brake Fluid – R.T.                 | After 4 hours                 | Turns yellow with slight edge lifting |
| Jet Fuel (JP-4) – R.T.             | After 4 hours                 | Slight edge lifting                   |
| 409 Cleaning Solution – R.T.       | 30 sec rub with shop towel    | No effect                             |
| Ammonia Solution (5%) – R.T.       | 30 sec rub with shop towel    | No effect                             |
| Window Cleaner – R.T.              | 30 sec rub with shop towel    | No effect                             |
| Weather-ometer                     | 720 hours                     | No effect                             |
| Water – R.T.                       | 48 hours                      | No change                             |

### Humidity Resistance:

1 day at 100°F (38°C) and 100% relative humidity: no change

## Application Ideas

- Computer terminals or printers tied to a central processing computer
- Self-contained memory printer units
- Computer printed trailer rating plates
- Tamper-proof labels for glass vials
- Labeling of sports, lawn and garden equipment

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## Application Techniques

Flexographic, letterpress and offset processes using conventional inks such as nitrocellulose, vinyl, acrylic, polyester, vinyl, polyamide and water based.

Uniform die-cutting is assured with controlled caliper liner thickness. With an easy liner, optimum stripping performance is assured.

Considerations must also be given to the label format to insure proper printer/terminal feeding. The majority of the computer terminals print 10 characters per inch horizontally and space lines 1/16" or 1/8" vertically. Terminal widths are 72, 80, 132 or 160 columns. Terminals that use sprocketed paper require a hole-punched margin on each side of the form (label). This margin is usually 1/2" wide. The feed or pre-punched holes are  $0.156 \pm 0.004$ " diameter and are spaced 0.5" nominally. The holes are  $0.236 \pm 0.020$ " from the liner edges. The perforations between labels are generally made 1025 or 1030 (ten slits per inch width with ties that are 0.025" to 0.030" width).

**Note:** This vinyl is "fragile" and special design and converting considerations must be made. Remove lattice round a 1" diameter bumpered idler. Bumper each die area blank with several wraps of meashing or film tapes.

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## Shelf Life

Two years from date of manufacture of product when properly stored at 72°F (22°C) and 50% relative humidity.

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## Agency Approvals

UL Recognized, File MH11410 ([www.ul.com](http://www.ul.com) under certifications)  
CSA: Accepted, File 099316 (<http://directories.csa-international.org>)

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## For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-223-7427 or visit [www.3M.com/converter](http://www.3M.com/converter). Address correspondence to: 3M Engineered Adhesives Division, 3M Center, Building 220-7E-01, St. Paul, MN 55144-1000. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

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This Engineered Adhesives Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



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Printed in U.S.A.  
©3M 2002 70-0707-1148-9 (5/02)