



Technical Data Sheet

3M™ Destructible Vinyl Label Material 7930T



Additional Info

Product Description

3M™ Destructible Vinyl Label Materials 7930T is a consistent, smooth, topcoated film designed to exhibit immediate destructibility on many surfaces with low shrinkage vinyl and high dimensional stability. This material utilizes 3M™ High Holding Acrylic Adhesive 350, it offers chemical resistance and holding strength even at high temperatures.

Product Features

- Low shrinkage vinyl material that produces dimensionally stable labels without adhesive ooze or dirty edges. Variable information can be added by the end-user as the material is thermal transfer printable.
- 3M™ Destructible Vinyl Label Material 7930T provides easy sheet processing and is designed for layflat. The backside of the liner is not printable.
- 3M™ Destructible Vinyl Label Material 7930T UL recognized for indoor and outdoor rating under file MH16411. CSA Accepted under file 099316.

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

Attribute Name	Value
Adhesive Type	Acrylic
Adhesive Coat Weight	1.08 — 1.62 g/in ²
Facestock	White Cast Vinyl Topcoated
Destruct Pattern	Face tear

Attribute Name	Value
Adhesive Thickness	0.02 mm (0.8 mil)
Facestock Thickness	0.051 mm (2 mil)
Liner	90# Polycoated bleached kraft sheet polyethylene coated on two sides
Liner Thickness	0.17 mm (6.7 mil)

Attribute Name	Value
Convertability	In order to capture the superior performance properties of 3M™ High Holding Acrylic Adhesive 350, thicker calipers are utilized for LSE or textured substrates. Its higher caliper, while desirable for the end use applications, may require extra care during processing. 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.

Typical Performance Characteristics

Attribute Name	Value
Minimum Application Temperature	10 °C (50 °F)
Long Term Temperature Resistance	60 °C (140 °F) ¹
Minimum Long Term Temperature Resistance	-28 °C (-20 °F) ¹

¹ Long Term (day, weeks)

Test Method: TLMI

Attribute Name	Value
Loop Tack	Label material Destruits N/cm ¹
Release Range	14 ²
Shear Adhesion	Label material Destruits h ³

¹ 300 mm/min (12 in/min)

² 180° removal, 90 in/min

³ 0.25 in² x 500g

Attribute Name	Value
Note	Calipers are nominal values

Typical Environmental Characteristics

Environmental Resistance

Labels were applied to stainless steel and dwelled 24 hours at room temperature before conditioning. Results were considered acceptable if no significant loss of adhesion occurred and label stock destructed when peeled from the surface. Chemical Resistance: Bond is secure when exposed to the following: Auto Oil: 72 hours at 120°F (49°C). Weak Alkali: 4 hours at room temperature. Weak Acid: 4 hours at room temperature. NaCL Solution: 72 hours at room temperature. Gasoline & MEK: Not recommended for use with MEK (methyl ethyl ketone) or prolonged immersion in gasoline. Whenever exposure to specific solvents is an important consideration, testing is recommended to assure adequate performance. Water Resistance: Withstands exposure to water at room temperature for 100 hours. Humidity Resistance: Withstands exposure to 90°F (32°C) and 90% RH for 168 hours.

Printing

This destructive vinyl label stock may be printable with some inks, but prime testing by the customer is critical to determine if product meets all customer requirements including print receptivity.

Converting

Die-cutting: 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 fragile labels. For specific tips, see the IATD Technical Bulletin "Die-cutting Fragile Label Stocks."

Dispensing: The combination of the fragile facestock and aggressive adhesive may present some difficulties in automatic dispensing. Testing with the intended application equipment and actual product samples are recommended before use.

Handling/Application Information

Application Examples

- Safety warning labels
- Licensing labels and tags
- Warranty seals
- Calibration seals
- Package seals
- Asset labels
- Tamper evident labels

Application Techniques

Determining Suitability: The tamper-indicating mechanism (i.e. the facestock destruction) depends upon adequate adhesion of the label to the substrate. A sufficient bond may not develop on all surfaces due to low surface energy (e.g. PTFE), contaminated or textured surfaces. Therefore, it is important to determine the suitability of the product in the intended application by carefully pre-testing. **Dispensing:** Care should be taken not to disturb or nick the facestock when manually removing the label from the liner. Slowly remove the liner from the label at a 90° angle. **Surface Preparation:** Assume all surfaces to which these label materials will be applied are contaminated – metals may be oily or dusty, plastics may be coated with mold release agents, dirt, etc. Any surface contaminant will adversely affect adhesion and the ability to destruct: therefore, contaminants must be removed prior to application by wiping with a solvent such as isopropyl alcohol. Consult the manufacturer’s Material Safety Data Sheet for proper handling and storage of solvents. **Application Pressure:** Application, temperature, pressure, and dwell time are all important variables to product adequate adhesion and assure the label fractures when removal or tampering is attempted. For best results, the label should be applied when all materials are over 50°F (10°C). Higher initial bonds can be achieved through increased application pressure (firm hand or squeegee pressure should be sufficient). The bond will increase in time, depending on the substrate. Metals and high surface energy materials will develop bonds faster than low surface energy materials. **Minimum Dwell Time:** For best results, wait 24 hours (at room temperature) before subjecting to harsh environments. **Note:** Our tamper-indicating product line is designed to indicate tampering by destructing when an attempt is made to remove the label. Since no tamper indicating feature is 100% tamper proof, careful consideration must be taken when designing labels or seals. When the consequences of tampering could be severe, such as injury or loss of human life or significant monetary loss, these products are not recommended as the sole means of package or product tamper indication. In these instances, additional methods of combination with the labels should be considered so that the tamper-indicating features are commensurate with the requirements of the application.

Industry Specifications

UL recognized for indoor and outdoor rating (File MH16411)
CSA Accepted under file 099316

Storage and Shelf Life

Store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original packaging, out of direct sunlight. For best performance, use this product within 24 months from date of manufacture.

Available Sizes

Attribute Name	Value
Packaging	Finished labels should be stored in plastic bags.

Information

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ISO Statement

This product was manufactured under a 3M quality system registered to ISO 9001 standards.

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