



Technical Data Sheet

3M™ Screen Printable Polyester Performance Durable Label Material 7028



Additional Info

Product Description

3M™ Screen Printable Polyester Performance Durable Label Materials are durable, high performance materials that offer thermal stability and moisture resistance. These topcoated polyester label stocks utilize 3M™ Adhesive 350, which is designed to permanently bond to high and low surface energy plastics, textured and contoured surfaces, powder coatings, and slightly oily metals.

Product Features

- Most universal adhesive for label materials.
- UL recognized (File MH16411). See the UL listings for details.
- Adhesive offers chemical resistance and holding strength, even at high temperatures.
- Liner for 3M™ Screen Printable Polyester Performance Durable Label Material 7028 provides easy sheet processing and is designed for layflat. The backside of the liner is not printable.

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	350
Facestock	Brushed Silver Polyester TC
Adhesive Coat Weight	1.66 — 2.04 g/100 in ²

Attribute Name	Value
Adhesive Thickness	0.028 mm (1.1 mil)
Facestock Thickness	0.051 mm (2 mil)
Liner	90# Polycd. bleached kraft sheet polyethylene coated on two sides
Liner Thickness	0.18 mm (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/convertting section of this data page or the “Guide to Converting and Handling Label Products” technical bulletin for additional information.

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 Performance Characteristics

180° Peel Adhesion

Temperature: 23 °C (73 °F)

Test Method: TLMI

Substrate	Value
High Density Polyethylene (HDPE)	3.5 N/cm (32 oz/in) ¹
Polycarbonate (PC)	6.12 N/cm (56 oz/in) ¹
Polypropylene (PP)	6.12 N/cm (56 oz/in) ¹
Stainless Steel	7.88 N/cm ¹

¹ 300 mm/min (12 in/min)

Test Method: TLMI

Attribute Name	Temperature	Value
Liner Release	23 °C (73 °F)	1 — 13.7 g/cm (5 — 70 g/2 in) ¹
Shear Adhesion		>100 h ²

¹ 180° removal, 300 in/min

² 0.25 in² x 500g

Attribute Name	Value
Minimum Application Temperature	10 °C (50 °F)
Long Term Temperature Resistance	150 °C (302 °F) ¹
Minimum Long Term Temperature Resistance	-29 °C (-20 °F) ¹

¹ Long Term (day, weeks)

Attribute Name	Value
Note	Calipers are nominal values

Printing

High gloss general purpose topcoating is designed for use with UV, solvent and water-based screen inks. Topcoating will also accept flexo, ion deposition, off set, letter press, hot stamp, and thermal transfer printing. The converter should verify that their ink systems are compatible with the topcoating on the polyester film by testing beforehand. Ink systems recommended for testing are listed below.

UV Screen Inks: Solvent Screen Inks:

ANI Printing Inks (formerly Nazdar's Akzo Nobel) Uvoscreen II 7700 and System 2
Environmental UV III Screen Pro Sericol's Polyplast PY, GVYL, VYL, TMI and Techmark
Nazdar 1600
Sericol's Uviflex, 021 UV, UV and PEL

Water-based Screen Inks: Water-based Flexo Inks:
Nazdar 2700 ANI Printing Inks Hydro Film 4000 Series
Arcar Ultra Film Series 5 Inks

Converting

Die cut with steel rule or flatbed dies. The 90# lay-flat liner also allows kiss cutting and back splitting. The converter can cut through the polyester facestock without cutting through the liner. Sheet label materials are not recommended for rotary die cutting and stripping operations.

Handling/Application Information

Application Examples

- Nameplates and product ID labels.
- Rating plates.
- Property identification and asset labeling.
- Warning, instruction, and service labels for durable goods, equipment/machinery and lawn and garden.

Application Techniques

For maximum bond strength, the surface should be clean and dry. Typical cleaning solvents are heptane and isopropyl alcohol.*

For best bonding conditions, application surface should be at room temperature or higher. Low temperature surfaces, below 40°F (5°C) can cause the adhesive to become so firm that it will not develop maximum contact with the substrate. Higher initial bonds can be achieved through increased rubdown pressure.

*When using solvents, read and follow the manufacturer's precautions and directions for use.

Industry Specifications

UL Recognized (File MH16411)

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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