



Standard Specification for Printed, Pressure-Sensitive Adhesive Labels for Use in Extreme Distribution Environments¹

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1. Scope

1.1 This specification provides a standard means to test and measure performance characteristics of printed, pressure-sensitive adhesive labels for containers, particularly containers to be used in extreme distribution environments (for example, hazardous materials labels, aerospace, military containers). For the purposes of this specification, an extreme distribution environment is one in which it can be reasonably expected to experience direct exposure to deteriorating chemicals, weather, elevated/cold temperatures, and other environmental and physical elements for an extended period of time.

1.2 *Units*—The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

- A666 Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar
- D374 Test Methods for Thickness of Solid Electrical Insulation (Withdrawn 2013)³
- D975 Specification for Diesel Fuel Oils
- D996 Terminology of Packaging and Distribution Environments

¹ This specification is under the jurisdiction of ASTM Committee D10 on Packaging and is the direct responsibility of Subcommittee D10.14 on Tape and Labels.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.

D1000 Test Methods for Pressure-Sensitive Adhesive-Coated Tapes Used for Electrical and Electronic Applications

D3611 Practice for Accelerated Aging of Pressure-Sensitive Tapes

D3951 Practice for Commercial Packaging

D4332 Practice for Conditioning Containers, Packages, or Packaging Components for Testing

D4814 Specification for Automotive Spark-Ignition Engine Fuel

D6210 Specification for Fully-Formulated Glycol Base Engine Coolant for Heavy-Duty Engines

D6252/D6252M Test Method for Peel Adhesion of Pressure-Sensitive Label Stocks at a 90° Angle

G195 Guide for Conducting Wear Tests Using a Rotary Platform Abraser

2.2 Department of Defense Standards:⁴

MIL-STD-810 Environmental Engineering Considerations and Laboratory Tests

MIL-STD-2073 Standard Practice for Military Packaging

MIL-DTL-83133 Turbine Fuel, Aviation, Kerosene Type, JP-8 (NATO F-34), NATO F-35, and JP-8+100 (NATO F-37)

2.3 Society of Automotive Engineers Standards:⁵

SAE J183 Engine Oil Performance and Engine Service Classification

SAE J300 Engine Oil Classification

2.4 Other:

ISO/IEC 15415 Information Technology – Automatic Identification and Data Capture Techniques – Bar Code Print Quality Test Specification – Two Dimensional Symbols⁶

ISO/IEC 15416 Information Technology – Automatic Identification and Data Capture Techniques – Bar Code Print Quality Test Specification – Linear Symbols⁶

⁴ Copies of these documents are available online at <http://quicksearch.dla.mil> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4/D, Philadelphia, PA 19111-5094.

⁵ Copies of these documents are available from Society of Automotive Engineers (SAE), 400 Commonwealth Dr., Warrendale, PA 15096-0001.

⁶ Copies of these documents are available at www.iso.org or www.ansi.org or from the American National Standards Institute, 25 West 43rd Street, 4th Floor, New York, NY 10036.