



Designation: D3105 – 17 (Reapproved 2024)

Standard Index of Methods for Testing Elastomeric and Plastomeric Roofing and Waterproofing Materials¹

This standard is issued under the fixed designation D3105; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This index is provided for reference to aid in the selection of procedures and test methods used in the evaluation of sheet and liquid roofing materials, as appropriate. Composition specifications and analytical methods in general, as well as tests on raw materials, are not included, the scope being limited to procedures used in the evaluation of the materials as received or as finished materials or coatings.

1.2 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:²

- D92** Test Method for Flash and Fire Points by Cleveland Open Cup Tester
- D93** Test Methods for Flash Point by Pensky-Martens Closed Cup Tester
- D146/D146M** Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing
- D228/D228M** Test Methods for Sampling, Testing, and Analysis of Asphalt Roll Roofing, Cap Sheets, and Shingles Used in Roofing and Waterproofing
- D412** Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension
- D413** Test Methods for Rubber Property—Adhesion to Flexible Substrate
- D430** Test Methods for Rubber Deterioration—Dynamic Fatigue

¹ This index of methods is under the jurisdiction of ASTM Committee D08 on Roofing and Waterproofing and is the direct responsibility of Subcommittee D08.01 on Nomenclature, Definitions and Editorial.

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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.

- D471** Test Method for Rubber Property—Effect of Liquids
- D543** Practices for Evaluating the Resistance of Plastics to Chemical Reagents
- D570** Test Method for Water Absorption of Plastics
- D573** Test Method for Rubber—Deterioration in an Air Oven
- D624** Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers
- D638** Test Method for Tensile Properties of Plastics
- D696** Test Method for Coefficient of Linear Thermal Expansion of Plastics Between –30°C and 30°C with a Vitreous Silica Dilatometer
- D746** Test Method for Brittleness Temperature of Plastics and Elastomers by Impact
- D750** Practice for Rubber Deterioration Using Artificial Weathering Apparatus
- D751** Test Methods for Coated Fabrics
- D816** Test Methods for Rubber Cements
- D823** Practices for Producing Films of Uniform Thickness of Paint, Coatings and Related Products on Test Panels
- D882** Test Method for Tensile Properties of Thin Plastic Sheeting
- D1002** Test Method for Apparent Shear Strength of Single-Lap-Joint Adhesively Bonded Metal Specimens by Tension Loading (Metal-to-Metal)
- D1004** Test Method for Tear Resistance (Graves Tear) of Plastic Film and Sheeting
- D1042** Test Method for Linear Dimensional Changes of Plastics Caused by Exposure to Heat and Moisture
- D1149** Test Methods for Rubber Deterioration—Cracking in an Ozone Controlled Environment
- D1203** Test Methods for Volatile Loss from Plastics Using Activated Carbon Methods
- D1204** Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheeting or Film at Elevated Temperature
- D1239** Test Method for Resistance of Plastic Films to Extraction by Chemicals
- D1310** Test Method for Flash Point and Fire Point of Liquids by Tag Open-Cup Apparatus
- D1475** Test Method for Density of Liquid Coatings, Inks, and Related Products