



Designation: D3105 – 17

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.

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
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, Varnish, 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
D1499 Practice for Filtered Open-Flame Carbon-Arc Exposures of Plastics
D1640/D1640M Test Methods for Drying, Curing, or Film Formation of Organic Coatings
D1653 Test Methods for Water Vapor Transmission of Organic Coating Films

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.

Current edition approved Jan. 1, 2017. Published February 2017. Originally approved in 1972. Last previous edition approved in 2008 as D3105 – 08. DOI: 10.1520/D3105-17.

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.