



Designation: D 5147 – 02a

Standard Test Methods for Sampling and Testing Modified Bituminous Sheet Material¹

This standard is issued under the fixed designation D 5147; 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 These test methods are under the jurisdiction of ASTM Committee D08 on ~~Roofing, Waterproofing, Roofing and Bituminous Materials~~ Waterproofing and are the direct responsibility of Subcommittee D08.04 on Felts and Fabrics.

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1. Scope

1.1 These test methods cover procedures for sampling and testing prefabricated, reinforced, polymer-modified bituminous sheet materials designed for single- or multiple-ply application in roofing and waterproofing membranes. These products may use various surfacing materials on one side.

1.2 These test methods appear in the following order:

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Sampling	3
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Tear Strength	7
Moisture Content	8
Water Absorption	9
Dimensional Stability	10
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Heat Conditioning	12
Accelerated Weathering	13
Granule Embedment	14
Compound Stability	15
Coating Thickness	16
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1.3 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.4 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:

D 95 Test Method for Water in Petroleum Products and Bituminous Materials by Distillation²

D 228146 Test Methods for ~~Sampling, Testing, Sampling and Analysis of Asphalt Roll Roofing, Cap Sheets, Testing Bitumen-Saturated Felts and Shingles Used in Woven Fabrics for Roofing and Waterproofing~~³

D 573 Test Method for Rubber—Deterioration in an Air Oven⁴

D 751 Test Methods for Coated Fabrics⁵

D-1079 Terminology Relating to Roofing, Waterproofing, and Bituminous Materials³

D 1204 Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheet or Film at Elevated Temperature⁶

D 4073 Test Method for Tensile-Tear Strength of Bituminous Roofing Membranes³

D 4798 Test Method for Accelerated Weathering Test Conditions and Procedures for Bituminous Materials (Xenon-Arc Method)³

² Annual Book of ASTM Standards, Vol 05.01.

³ Annual Book of ASTM Standards, Vol 04.04.

⁴ Annual Book of ASTM Standards, Vol 09.01.

⁵ Annual Book of ASTM Standards, Vol 09.02.

⁶ Annual Book of ASTM Standards, Vol 08.031.