



Designation: D6152/D6152M – 12 (Reapproved 2024)

Standard Specification for SEBS-Modified Mopping Asphalt Used in Roofing¹

This standard is issued under the fixed designation D6152/D6152M; 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 specification covers SEBS (styrene-ethylene-butylene-styrene)-modified asphalt intended for use in built-up roof construction, construction of some modified bitumen systems, construction of bituminous vapor retarder systems, and for adhering insulation boards used in various types of roof systems.

1.2 This specification is intended as a material specification. Issues regarding the suitability of specific roof constructions or application techniques are beyond its scope.

1.3 The specified tests and property values used to characterize SEBS-modified asphalt are intended to establish minimum properties. In-place system design criteria or performance attributes are factors beyond the scope of this specification.

1.4 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 nonconformance with the standard.

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

1.6 *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.*

¹ This specification is under the jurisdiction of ASTM Committee D08 on Roofing and Waterproofing and is the direct responsibility of Subcommittee D08.03 on Surfacing and Bituminous Materials for Membrane Waterproofing and Built-up Roofing.

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2. Referenced Documents

2.1 ASTM Standards:²

- D5/D5M Test Method for Penetration of Bituminous Materials
- D36/D36M Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)
- D92 Test Method for Flash and Fire Points by Cleveland Open Cup Tester
- D140/D140M Practice for Sampling Asphalt Materials
- D312/D312M Specification for Asphalt Used in Roofing
- D412 Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension
- D1079 Terminology Relating to Roofing and Waterproofing
- D2042 Test Method for Solubility of Asphalt Materials in Trichloroethylene or Toluene
- D3111 Practice for Flexibility Determination of Hot-Melt Adhesives by Mandrel Bend Test

3. Terminology

3.1 *Definitions*—For definitions of general terms used in this specification, refer to Terminology D1079.

3.2 Definitions of Terms Specific to This Standard:

- 3.2.1 *elastic recovery, n*—the degree to which a material returns to its normal dimensions after being distorted.
- 3.2.2 *low-temperature flexibility, n*—the ability of a material to bend at a prescribed rate around a mandrel of a prescribed diameter at a prescribed low temperature without cracking or breaking.

4. Materials and Manufacture

- 4.1 The base asphalt shall be prepared from crude petroleum.
- 4.2 The SEBS-modified asphalt shall incorporate sufficient SEBS as the primary polymeric modifier to meet the requirements of this specification.

5. Physical Requirements

- 5.1 The SEBS-modified asphalt shall be homogeneous and free of water.

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.