



Designation: D6152 – 99 (Reapproved 2005)

## Standard Specification for SEBS-Modified Mopping Asphalt Used in Roofing<sup>1</sup>

This standard is issued under the fixed designation D6152; 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 ( $\epsilon$ ) 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 SI units are to be regarded as the standard. The values given in parentheses are for information only.

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 and health practices and determine the applicability of regulatory limitations prior to use.*

### 2. Referenced Documents

2.1 *ASTM Standards:*<sup>2</sup>

- D5 Test Method for Penetration of Bituminous Materials
- D36 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 Practice for Sampling Bituminous Materials
- D312 Specification for Asphalt Used in Roofing

<sup>1</sup> 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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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

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

D3111 Test Method for Flexibility Determination of Hot-Melt Adhesives by Mandrel Bend Test Method

### 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.

5.2 The SEBS modified asphalt shall conform to the physical properties prescribed in Table 1.

### 6. Sampling

6.1 Sample the material as prescribed in Practice D140.

6.2 If the material is shipped in hot filled cardboard or plastic kegs, obtain samples from the kegs in accordance with the following procedure:

6.2.1 Remove the container from the block of SEBS-modified asphalt, cutting away the liner if present.

6.2.2 Using a hatchet or a hot knife, cut two vertical wedges approximately 50 mm (2 in.) wide and 50 mm (2 in.) deep along the entire length of the material block. Cut the wedges into 100-mm (4-in.) lengths.