



Designation: D 6509 – 00

Standard Specification for Atactic Polypropylene (APP) Modified Bituminous Base Sheet Materials Using Glass Fiber Reinforcements¹

This standard is issued under the fixed designation D 6509; 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 prefabricated modified bituminous sheet materials with glass fiber reinforcement, which use atactic polypropylene (APP) as the primary modifier and which are intended for use as a base sheet in the fabrication of multiple ply roofing and waterproofing membranes.

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

1.3 The specified tests and property limits used to characterize the sheet materials covered by this specification are intended to establish minimum properties. In-place roof system design criteria, such as fire resistance, field strength, impact/puncture resistance, material compatibility, uplift resistance, the need for field applied coatings, and others, are factors beyond the scope of this material specification.

1.4 The values stated in SI units are to be regarded as the standard. Inch-pound units are given in parentheses for information only.

1.5 The following precautionary statement pertains only to the test method portion, Section 8, of this specification. *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 1079 Terminology Relating to Roofing, Waterproofing, and Bituminous Materials

D 5147 Test Methods for Sampling and Testing Modified Bituminous Sheet Material²

¹ This specification is under the jurisdiction of ASTM Committee D-8 on Roofing, Waterproofing and Bituminous Materials and is the direct responsibility of Subcommittee D08.04 on Felts and Fabrics.

Current edition approved Jan. 10, 2000. Published March 2000.

² *Annual Book of ASTM Standards*, Vol 04.04.

D 5636 Test Method for Low Temperature Unrolling of Felt or Sheet Roofing and Waterproofing Materials²

3. Terminology

3.1 *Definitions*—For definitions of terms used in this specification, refer to Terminology D 1079.

4. Materials and Manufacture

4.1 In the manufacturing process, the reinforcement is impregnated and coated on both sides in an APP-modified bituminous coating. The APP-modified bituminous coating may be compounded with a mineral stabilizer.

4.2 The base sheet may be surfaced with mineral matter to prevent sticking in the roll. The reverse side may be covered with a thin polyolefin film or with other surfacing that will not interfere with adhesion or bonding of the sheet during application.

5. Physical Properties

5.1 The sheet shall conform to the minimum physical properties described in Table 1.

5.2 The finished product shall not crack or be so sticky as to cause tearing or other material damage upon being unrolled at any product temperature between 4° and 60°C (40° and 140°F).

6. Dimensions, Mass, and Permissible Variations

6.1 The finished product shall conform to the following dimensions and variations:

6.1.1 The width of the roll shall be as agreed upon between the purchaser and the supplier and shall not vary more than 1 %.

6.1.2 The area of the roll shall be no less than as agreed upon between the purchaser and the supplier.

6.1.3 The selvage width shall be within 6 mm (¼ in.) of the nominal selvage width and shall be not less than 76 mm (3 in.) in width from the edge of the sheet.

6.2 The mass and thickness of the finished product shall be as prescribed in Table 2.