



Designation: E1136 – 14

Standard Specification for P195/75R14 Radial Standard Reference Test Tire¹

This standard is issued under the fixed designation E1136; 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 reappraisal. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reappraisal.

1. Scope

1.1 This specification covers the general requirements for the P195/75R14 radial standard reference test tire. The tire covered by this specification is primarily for use as a reference tire for braking traction, snow traction, and wear performance evaluations, but may also be used for other evaluations, such as pavement roughness, noise, or other tests that require a reference tire.

1.1.1 Other standard reference test tires are also used for these purposes and are referenced in Section 2.

1.2 This specification provides a rim code diameter of 14, standard tire design and construction, standard dimensions, and specifies the conditions of storage.

1.3 The values stated in SI units are to be regarded as the standard. The values given in parentheses are mathematical conversions to inch-pound units that are provided for information only and are not considered standard.

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:²

D412 Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension

D1054 Test Method for Rubber Property—Resilience Using a Goodyear-Healey Rebound Pendulum (Withdrawn 2010)³

D1765 Classification System for Carbon Blacks Used in Rubber Products

D2240 Test Method for Rubber Property—Durometer Hardness

D3182 Practice for Rubber—Materials, Equipment, and Procedures for Mixing Standard Compounds and Preparing Standard Vulcanized Sheets

D7121 Test Method for Rubber Property—Resilience Using Schob Type Rebound Pendulum

E867 Terminology Relating to Vehicle-Pavement Systems

F538 Terminology Relating to the Characteristics and Performance of Tires

F2493 Specification for P225/60R16 97S Radial Standard Reference Test Tire

F2870 Specification for 315/70R22.5 154/150L Radial Truck Standard Reference Test Tire

F2871 Specification for 245/70R19.5 136/134M Radial Truck Standard Reference Test Tire

F2872 Specification for 225/75R16C 116/114S M+S Radial Light Truck Standard Reference Test Tire

3. Terminology

3.1 Definitions:

3.1.1 For definitions of terms used in this specification, refer to Terminology **F538**.

3.1.2 *all-season tread, n*—tread design providing dry, wet, and snow traction performance for an optimized balance for year-round performance and which may meet the Rubber Manufacturers Association (RMA) definition for an M&S, M+S, M/S, MS, etc. marked tire (see RMA “Snow Tire Definitions for Passenger and Light Truck (LT) Tires”⁴). **F538**

3.1.3 *pavement characteristic, n*—physical feature or property of a pavement surface such as type, roughness, texture, and skid resistance. **E867**

3.1.4 *pitch, n*—unit of tread pattern elements used in various combinations to obtain optimum noise levels. **F538**

3.1.5 *standard reference test tire, SRTT, n*—tire that is used as a control tire or surface monitoring tire (for example, Specification **F2493**, **F2870**, **F2871**, and **F2872** tires). **F538**

¹ This specification is under the jurisdiction of ASTM Committee F09 on Tires and is the direct responsibility of Subcommittee F09.20 on Vehicular Testing.

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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.

³ The last approved version of this historical standard is referenced on www.astm.org.

⁴ Available from the Rubber Manufacturers Association 1400 K Street, N.W. Washington, D.C. 20005.



FIG. 1 Front View of the P195/75R14 Radial Standard Reference Test Tire



FIG. 2 Side View of the P195/75R14 Radial Standard Reference Test Tire

“Standard Reference Test Tire,” and ECE (Economic Commission for Europe) and DOT (Department of Transportation) certification marks.

4.4 Beginning in 2014, the tire is marked with an arrow which provides a rotational orientation for those testers who choose to reference it. (See Fig. 3.)

5. Materials and Manufacture

5.1 The individual standard reference test tires shall conform to the manufacturer’s design standards. Dimensions and permissible variations are given in Fig. 4 and Table 1.

4. Design and Construction

4.1 The P195/75R14 standard reference test tire shall feature the steel-belted radial technology and an all-season tread design (see Fig. 1 and Fig. 2), and with technology as described in Sections 5 – 7.

4.2 The tire shall be designed to conform with the Tire and Rim Association, Inc. (TRA) standard nominal dimensions and tolerances for cross section and overall diameter found in the current Year Book.⁵

4.3 The tire used for this specification is produced by Michelin Passenger and Light Truck Tire Manufacturing.⁶ The tire stampings on the sidewall include: “ASTM E1136,”

⁵ Available from the Tire and Rim Association, Inc., 175 Montrose West Ave., Suite 150, Copley, OH 44321.

⁶ The sole source of supply of the standard reference tire known to the committee at this time is Michelin Passenger and Light Truck Tire Manufacturing, 1101 Michelin Road, Ardmore, OK 73401 (specify P195/75R14 SRTT Uniroyal Tiger Paw). Ordering information is available on the ASTM F09 website: <http://www.astm.org/COMMIT/COMMITTEE/F09.htm>. If you are aware of alternative suppliers, please provide this information to ASTM International Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee,¹ which you may attend.

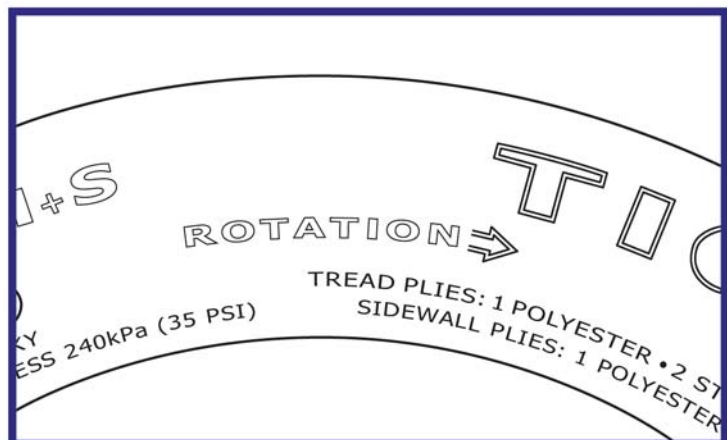


FIG. 3 Example of Rotation Arrow