



Designation: **D1204—08 D1204 – 14**

Standard Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheeting or Film at Elevated Temperature¹

This standard is issued under the fixed designation D1204; 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.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope*

1.1 This test method covers the measurement of changes in linear dimensions of nonrigid thermoplastic sheeting or film that result from exposure of the material to specified conditions of elevated temperature and time.

1.2 The values stated in SI units are to be regarded as the standard.

1.3 *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.*

NOTE 1—This test method and **ISO 11501** address the same matter, but differ in technical content (and results cannot be directly compared between the two methods).

2. Referenced Documents

2.1 *ASTM Standards:*²

D618 Practice for Conditioning Plastics for Testing

D883 Terminology Relating to Plastics

D2732 Test Method for Unrestrained Linear Thermal Shrinkage of Plastic Film and Sheeting

D4000 Classification System for Specifying Plastic Materials

2.2 *ISO Standard*

ISO 11501 Plastics: Film and Sheeting—Determination of Dimensional Change on Heating³

3. Terminology

3.1 *Definitions*—Terms applicable to this test method are defined in Terminology **D883**:554820556/astm-d1204-14

4. Significance and Use

4.1 This test method is particularly applicable to nonrigid thermoplastic sheeting or film made by the calender or extrusion process. The test gives an indication of lot-to-lot uniformity asin regards to the degree of internal strains introduced during processing.

4.2 The heating medium in this test method is air and ~~may~~does not necessarily yield the same results as Test Method **D2732**, which uses a liquid medium.

4.3 Before proceeding with this test method, ~~reference should be made to the specification~~review the specifications of the material being ~~tested.~~tested, if available. Any test specimen preparation, conditioning, dimensions, or testing parameters, or combination thereof, covered in the relevant ASTM material specification shall take precedence over those mentioned in this test method. If there are no relevant ASTM material specifications, then the default conditions apply. Table 1 of Classification System **D4000** lists the ASTM material standards that currently exist.

¹ This test method is under the jurisdiction of ASTM Committee **D20** on Plastics and is the direct responsibility of Subcommittee **D20.19** on Film, Sheeting, and Molded Products.

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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 Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, http://www.ansi.org.

*A Summary of Changes section appears at the end of this standard