



Designation: **D6436 – 08 D6436 – 14**

# Standard Guide for Reporting Properties for Plastics and Thermoplastic Elastomers<sup>1</sup>

This standard is issued under the fixed designation D6436; 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 guide provides recommendations for reporting the results of property values for plastics and thermoplastic elastomers in published literature, data sheets, presentations, comparative analysis, and so forth. It is intended to minimize confusion when comparing the data from several sources.

1.2 This standard is not intended to replace recommendations within the test methods for reporting data. Refer to the test method or use other guidance to determine the number of significant figures for reporting laboratory test results.

NOTE 1—There is no similar or equivalent ISO known ISO equivalent to this standard.

## 2. Referenced Documents

2.1 ~~Due to~~Because of the large number of ASTM test methods referenced in this guide, they will not be identified individually in this section.

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

[D883 Terminology Relating to Plastics](#)

[D1600 Terminology for Abbreviated Terms Relating to Plastics](#)

[IEEE/ ASTM SI-10 Standard for Use of the International System of Units \(SI\): The Modern Metric System](#)

2.3 *NFPA Standard*:

[NFPA 99 Standard for Health Care Facilities](#)<sup>3</sup>

## 3. Terminology

3.1 *Definitions*—The terminology used in this guide is in accordance with Terminologies [D883](#), [D1600](#), and [IEEE/ ASTM SI-10](#).

## 4. Significance and Use

4.1 This guide is intended to provide ready access to the recommended property name, test method reference, maximum number of significant digits,<sup>4</sup> and appropriate units for commonly used plastics and thermoplastic elastomer tests.

4.2 It is particularly useful for those involved in the writing and proofreading of documents containing data for a large number of tests since the need to go to each individual test method should be greatly minimized.

4.3 SI units are to be regarded as the standard. U.S. Customary units and conversion factors are provided to accommodate those situations where it is necessary to report both. U.S. Customary refers to units commonly used in the United States and is not always the same as inch-pound units.

## 5. Procedure

5.1 Refer to [Table 1](#) for the recommended nomenclature and units for physical properties and the recommended number of significant digits for test data associated with each property.

<sup>1</sup> This guide is under the jurisdiction of ASTM Committee [D20](#) on Plastics and is the direct responsibility of Subcommittee [D20.94](#) on Government/Industry Standardization.

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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.

<sup>3</sup> Available from National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02169-7471, <http://www.nfpa.org>.

<sup>4</sup> The recommended maximum number of significant digits is based on experience of experts in the plastics industry.

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

5.2 Abbreviations not shown in **Table 1** that may be necessary to further clarify the conditions of testing, such as MHz and kHz for electrical tests, can be found in **IEEE/ ASTM SI-10**.

**6. Keywords**

6.1 conversion factors; decimal places; properties reporting; reporting guide; significant figures

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