This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

Designation: D1566 – 21

Standard Terminology Relating to Rubber[1]

This standard is issued under the fixed designation D1566; 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 terminology covers definitions of technical terms used in the rubber industry. Terms that are generally understood or adequately defined in other readily available sources are not included.

1.2 Definitions for terms that have been established by other bodies recognized as expert in the field will, after ballot approval, be inserted in this terminology without change, and the source of the definition will be identified. Exceptions to this rule will be where the meaning of the term as used in the rubber industry is different from the common meaning of the term.

1.3 Users of this terminology who require mathematical expressions for the time and temperature dependent physical properties of some terms found in this standard should refer to Guide D5992 and other standards listed under referenced documents. Selected terms from Guide D5992 may be found in Annex A1.

1.4 Although this terminology standard avoids the inclusion of jargon and archaic terms as much as possible, some terms have been retained for historical reasons.

1.5 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*[2]

D412 Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension

D925 Test Methods for Rubber Property—Staining of Surfaces (Contact, Migration, and Diffusion)

D1076 Specification for Rubber—Concentrated, Ammonia Preserved, Creamed, and Centrifuged Natural Latex

D1148 Test Method for Rubber Deterioration—Discoloration from Ultraviolet (UV) or UV/Visible Radiation and Heat Exposure of Light-Colored Surfaces

D1415 Test Method for Rubber Property—International Hardness

D1646 Test Methods for Rubber—Viscosity, Stress Relaxation, and Pre-Vulcanization Characteristics (Mooney Viscometer)

D1765 Classification System for Carbon Blacks Used in Rubber Products

D3053 Terminology Relating to Carbon Black

D5603 Classification for Rubber Compounding Materials—Recycled Vulcanizate Rubber

D5992 Guide for Dynamic Testing of Vulcanized Rubber and Rubber-Like Materials Using Vibratory Methods

D6085 Practice for Sampling in Rubber Testing—Terminology and Basic Concepts

E6 Terminology Relating to Methods of Mechanical Testing

E20 Practice for Particle Size Analysis of Particulate Substances in the Range of 0.2 to 75 Micrometres by Optical Microscopy (Withdrawn 1994)[3]

E28 Test Methods for Softening Point of Resins Derived from Pine Chemicals and Hydrocarbons, by Ring-and-Ball Apparatus

E111 Test Method for Young's Modulus, Tangent Modulus, and Chord Modulus

E126 Test Method for Inspection, Calibration, and Verification of ASTM Hydrometers

2.2 *ISO Standards:*[4]

1382-82 Rubber-Vocabulary Second Edition (Addendum 16-18-1998)

3. Terminology

abrasion, *n*—surface loss of a material due to frictional forces.

[1] This terminology is under the jurisdiction of ASTM Committee D11 on Rubber and Rubber-like Materials and is the direct responsibility of Subcommittee D11.08 on Terminology.

Current edition approved May 1, 2021. Published May 2021. Originally approved in 1957. Last previous edition approved in 2020 as D1566 – 20. DOI: 10.1520/D1566-21.

The boldface designations refer to the original source of the definition and the ASTM technical committee having jurisdiction.

[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 International Organization for Standardization (ISO), 1 rue de Varembé, Case postale 56, CH-1211, Geneva 20, Switzerland.

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