



Standard Specification for Flexible Cellular Rubber Chemically Blown¹

This standard is issued under the fixed designation D6576; 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 specification establishes requirements for chemically blown cellular rubber.

1.2 In the case of conflict between the provisions of this specification and those of detailed specifications or test methods for a particular product, the latter shall take precedence.

1.3 Unless specifically stated otherwise, by agreement between the purchaser and the supplier, all test methods shall be performed in accordance with the test methods specified in this specification.

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

1.5 *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.*

1.6 There is no known ISO equivalent to this specification.

NOTE 1—This specification was revised using the updated test methods and specifications in the latest version of Specification D1056.

2. Referenced Documents

2.1 *ASTM Standards:*²

D297 Test Methods for Rubber Products—Chemical Analysis

D471 Test Method for Rubber Property—Effect of Liquids

D635 Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position

D883 Terminology Relating to Plastics

D1055 Specifications for Flexible Cellular Materials—Latex Foam

¹ This specification is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.22 on Cellular Materials - Plastics and Elastomers.

Current edition approved Nov. 15, 2013. Published December 2013. Originally approved in 2000. Last previous edition approved in 2007 as D6576 - 07. DOI: 10.1520/D6576-13.

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.

D1056 Specification for Flexible Cellular Materials—Sponge or Expanded Rubber

E177 Practice for Use of the Terms Precision and Bias in ASTM Test Methods

E691 Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method

2.2 *SAE Standard:*³

SAE J 1351-1993 Hot Odor Test for Insulation Materials

2.3 *Military Standards/Specifications:*⁴

MIL STD 105 Sampling Procedures and Tables for Inspection by Attributes

MIL STD 129 Marking for Shipment and Storage

MIL STD 293 Visual Inspection Guide for Cellular Rubber Items

MIL R 6130C Standard Specification for Flexible Cellular Rubber Chemically Blown

2.4 *Federal Standards/Specifications:*⁴

PPP-B576 Box, Wood, Cleated, Veneer, Paper Overlaid

PPP-B591 Box, Fiberboard, Wood-Cleated

PPP-B601 Box, Wood, Cleated Plywood

PPP-B621 Box, Wood, Nailed and Lock-Corner

PPP-B636 Box, Shipping, Fiberboard

3. Terminology

3.1 For definitions of technical terms pertaining to cellular flexible rubber used in this specification, refer to Terminology D883.

3.2 *Definitions:*

3.2.1 *cellular material*—a generic term for materials containing many cells (either open or closed, or both) dispersed throughout the mass.

3.2.2 *closed cell*—a product whose cells are totally enclosed by its walls and hence not interconnecting with other cells.

3.2.3 *open cell*—a product whose cells are not totally enclosed by its walls and open to the surface, either directly or by interconnecting with other cells.

³ Available from Society of Automotive Engineers (SAE), 400 Commonwealth Dr., Warrendale, PA 15096-0001, <http://www.sae.org>.

⁴ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.

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