

Designation: D4669 - 07 (Reapproved 2013)²¹ D4669 - 18

Standard Test Method for Polyurethane Raw Materials: Determination of Specific Gravity of Polyols ¹

This standard is issued under the fixed designation D4669; 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.

ε¹ NOTE—Reapproved with editorial changes in April 2013.

1. Scope*

- 1.1 These test methods measure the specific gravity of polyols. (See—Test Method A measures the specific gravity of polyols using a pycnometer and Test Method B lists a reference for measuring the specific gravity of liquids using a density meter that is applicable to polyols (see Note 1.-).
- 1.2 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—There is no known ISO equivalent to this standard.

1.2 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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.

Note 1-There is no known ISO equivalent to this standard.

1.3 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

D883 Terminology Relating to Plastics

AS IM D4669-18

D4052 Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter 101-14669-18

E2251 Specification for Liquid-in-Glass ASTM Thermometers with Low-Hazard Precision Liquids

E202 Test Methods for Analysis of Ethylene Glycols and Propylene Glycols

3. Terminology

- 3.1 Definitions—For definitions of terms used in these test methods see Terminology D883.
- 3.2 Definitions of Terms Specific to This Standard:
- 3.2.1 *specific gravity*—the ratio of the weight in air of a given volume of the material at a stated temperature to the weight in air of an equal volume of water at a stated temperature. It shall be expressed as specific gravity, 25/25°C, indicating that the sample and reference water were both measured at 25°C.

4. Significance and Use

4.1 These test methods are suitable for quality control, specification testing, and research. The specific gravity is necessary when converting kinematic viscosity to absolute viscosity.

¹ These test methods are under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.22 on Cellular Materials - Plastics and Elastomers. It was recommended to ASTM by the Center for the Polyurethane Industry of the American Chemistry Council.

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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.