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Standard Test Method for Volatile Matter (Including Water) of Vinyl Chloride Resins¹

This standard is issued under the fixed designation D3030; 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 test method covers the quantitative determination of the volatile matter (including water) present in vinyl chloride resins.

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

NOTE1-This test method and ISO 1269-1980 are identical in all technical details. 1-This test method is identical ISO 1269.

2. Referenced Documents

2.1 ASTM Standards:²
D618 Practice for Conditioning Plastics for Testing
D883 Terminology Relating to Plastics
D1600 Terminology for Abbreviated Terms Relating to Plastics
E145 Specification for Gravity-Convection and Forced-Ventilation Ovens
2.2 ISO Standard:

ISO 1269–1980ISO 1269 Homopolymer and Copolymer Resins of Vinyl Chloride—Determination of Volatile Matter Including Water³

3. Terminology

3.1 Definitions: Definitions are in accordance with Definitions D883 and Terminology D1600, unless otherwise indicated.

4. Summary of Test Method

4.1 This test method consists of heating at 110°C a known quantity of powdered resin to constant mass. The calculated mass loss defines quantitatively the volatile matter present in the sample.

5. Significance and Use

5.1 The quantity of volatile components in a vinyl chloride resin can be established by this test method. This test method does not identify the components.

6. Apparatus

6.1 Oven—A forced-ventilation oven conforming to the requirements for Type IIA in Specification E145. The oven should be capable of maintaining a temperature of $110 \pm 1^{\circ}$ C when the damper is half open and the vent is wide open.

6.1.1 The oven shall be equipped with a calibrated ASTM thermometer and the proper stem correction shall be applied to the temperature measurement.

6.1.2 The oven temperature shall be controlled by an accurate, reliable thermoregulator, maintaining the set point within $\pm 0.5^{\circ}$ C or better.

6.1.3 The inside of the oven shall be free of contamination or surface deposits. Stainless steel oven liners should be used to reduce corrosion due to continued exposure to decomposition gases.

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

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¹ This test method is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.15 on Thermoplastic Materials (Section D20.15.08).

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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.