



Designation: D7188 – 05 (Reapproved 2019)

Standard Terminology for Printing Inks, Materials, and Processes¹

This standard is issued under the fixed designation D7188; 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 standard covers terms used in the description of printing inks, printing materials, and printing processes.

1.2 This terminology standard does not include definitions related to Print Problems (see Terminology D6488).

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

1.4 *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

- D16 Terminology for Paint, Related Coatings, Materials, and Applications
- D1316 Test Method for Fineness of Grind of Printing Inks By the NPIRI Grindometer
- D1535 Practice for Specifying Color by the Munsell System
- D2066 Test Methods for Relative Tinting Strength of Paste-Type Printing Ink Dispersions
- D3732 Practice for Reporting Cure Times of Ultraviolet-Cured Coatings
- D4040 Test Method for Rheological Properties of Paste Printing and Vehicles by the Falling-Rod Viscometer
- D4302 Specification for Artists' Oil, Resin-Oil, and Alkyd Paints

¹ This terminology is under the jurisdiction of ASTM Committee D01 on Paint and Related Coatings, Materials, and Applications and is the direct responsibility of Subcommittee D01.56 on Printing Inks.

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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.

- D4361 Test Method for Apparent Tack of Printing Inks and Vehicles by a Three-Roller Tackmeter
 - D4449 Test Method for Visual Evaluation of Gloss Differences Between Surfaces of Similar Appearance
 - D5010 Guide for Testing Printing Inks and Related Materials (Withdrawn 2017)³
 - D5181 Test Method for Abrasion Resistance of Printed Matter by the GA-CAT Comprehensive Abrasion Tester
 - D5383 Practice for Visual Determination of the Lightfastness of Art Materials by Artists and Art Technologists
 - D5403 Test Methods for Volatile Content of Radiation Curable Materials
 - D5909 Test Method for Drying Time of Oxidative-Drying Printing Inks by Squalene Resistance
 - D6488 Terminology Relating to Print Problems
 - D6493 Test Methods for Softening Point of Hydrocarbon Resins and Rosin Based Resins by Automated Ring-and-Ball Apparatus
 - D6687 Guide for Testing Printing Ink Vehicles and Components Thereof
 - E430 Test Methods for Measurement of Gloss of High-Gloss Surfaces by Abridged Goniophotometry
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- NAPIM: National Association of Printing Ink Manufacturers, 5th ed. 1988⁴
 - Kipphan: *Handbook of Print Media Technologies and Production Methods*, Kipphan, Helmut: Springer 2001⁵

3. Significance and Use

3.1 A common set of definitions is essential to improve communication and avoid misunderstanding among ink makers, paper makers, and printers.

3.2 Definitions that are verbatim from one of the referenced sources are indicated by giving the acronym of the organization or the author of the book at the end of the definition.

4. Terminology

4.1 Definitions:

³ The last approved version of this historical standard is referenced on www.astm.org.

⁴ Available from National Association of Printing Ink Manufacturers, 581 Main St., 5th Fl., Woodbridge, NJ 07095, <http://www.napim.org>.

⁵ Available from Springer Nature, <http://www.springer.com>.