



## Designation: ~~D1455 – 87 (Reapproved 2008)~~ D1455 – 87 (Reapproved 2015)

# Standard Test Method for 60° Specular Gloss of Emulsion Floor Polish<sup>1</sup>

This standard is issued under the fixed designation D1455; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This test method covers the determination of the 60° specular gloss of films of emulsion floor polish after application to a substrate.

NOTE 1—Specular gloss is one of several related appearance attributes that produce the sensation of glossiness. For this reason, specular gloss measurements may not always correlate well with visual rankings of glossiness.

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.*

## 2. Referenced Documents

2.1 *ASTM Standards:*<sup>2</sup>

[D523 Test Method for Specular Gloss](#)

[D1436 Test Methods for Application of Emulsion Floor Polishes to Substrates for Testing Purposes](#)

## 3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *specular gloss*—the ratio of reflected to incident light, times 1000, for specified apertures of illumination and reception when the axis of reception coincides with the mirror image of the axis of illumination.

## 4. Significance and Use

4.1 This test method may be used to evaluate the difference in gloss of dried films of emulsion floor polishes when the light reflected at a 60° angle is measured. Extremely high- or low-gloss polishes may not be differentiated at a 60° angle. A 20° angle measured in accordance with Test Method [D523](#) may give better definition of gloss.

<https://standards.iteh.ai/catalog/standards/sist/b342c1ed-ea8b-4d94-8447-f8e0677cdd1a/astm-d1455-872015>

## 5. Apparatus

5.1 *Glossmeter*—The instrument and the reference standards shall conform to the requirements prescribed in Test Method [D523](#), using an angle of reflection of 60°.

5.2 *Floor Polish Applicator*—The equipment for application of the floor polish shall conform to the requirements prescribed in Test Methods [D1436](#).

## 6. Substrates

6.1 Two standard substrates are commonly used; however, commercial types may be used to test specific applications. Better agreement of results can be expected when black glass is used as the substrate, except for those cases where the sample being tested produces a hazy film. Where a hazy film is produced, black glass should not be employed as the substrate. The standard types are as follows:

6.1.1 *Black Glass*,<sup>3,4</sup> having a highly polished plane surface with a refractive index of 1.567.

<sup>1</sup> This test method is under the jurisdiction of ASTM Committee [D21](#) on Polishes and is the direct responsibility of Subcommittee [D21.04](#) on Performance Tests. Current edition approved ~~March 1, 2008~~ Nov. 1, 2015. Published ~~April 2008~~ November 2015. Originally approved in 1956. Last previous edition approved in ~~2002~~ 2008 as [D1455 – 87\(2002\)](#); (2008). DOI: [10.1520/D1455-87R08](#); 10.1520/D1455-87R15.

<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

<sup>3</sup> The sole source of supply of black glass known to the committee at this time is L. Perilstein Glass, 2543 Kensington Ave. Phila., PA 19125.

<sup>4</sup> If you are aware of alternative suppliers, please provide this information to ASTM Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend.