



Standard Specification for FEP-Fluorocarbon Sheet and Film¹

This standard is issued under the fixed designation D3368; 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 covers unfilled, unpigmented FEP-fluorocarbon resin sheet and film less than 3.175 mm (0.125 in.) thick. Recycled materials are allowed in accordance with 6.2.

1.2 The values stated in SI units as detailed in [IEEE/ASTM SI 10](#) are to be regarded as standard and the practices of [IEEE/ASTM SI 10](#) incorporated herein.

1.3 The following safety hazards caveat pertains only to the test methods portion, Section 14, of this specification: *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.

2. Referenced Documents

2.1 ASTM Standards:²

[D149 Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies](#)

[D374 Test Methods for Thickness of Solid Electrical Insulation \(Withdrawn 2013\)³](#)

[D618 Practice for Conditioning Plastics for Testing](#)

[D638 Test Method for Tensile Properties of Plastics](#)

[D792 Test Methods for Density and Specific Gravity \(Relative Density\) of Plastics by Displacement](#)

¹ This specification is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.15 on Thermoplastic Materials D20.15.12 on Fluoropolymers.

Current edition approved March 1, 2014. Published March 2014. Originally approved in 1975. Last previous edition approved in 2010 as D3368 - 04(2010). DOI: 10.1520/D3368-14.

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

[D882 Test Method for Tensile Properties of Thin Plastic Sheeting](#)

[D883 Terminology Relating to Plastics](#)

[D2116 Specification for FEP-Fluorocarbon Molding and Extrusion Materials](#)

[D3892 Practice for Packaging/Packing of Plastics](#)

[D5740 Guide for Writing Material Standards in the Classification Format](#)

[E691 Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method](#)

[IEEE/ASTM SI 10 Standard for Use of the International System of Units \(SI\)](#)

2.2 Other Standard:

[TAPPI 411 Standard Thickness \(Caliper\) of Paper and Paper Products⁴](#)

3. Terminology

3.1 Definitions:

3.1.1 For definitions of terms used in this specification, see Terminology [D883](#).

3.1.2 *lot, n*—one production run or a uniform blend of two or more production runs.

4. Classification

4.1 This specification covers four types of FEP-fluorocarbon sheet and film:

4.1.1 *Type I*—General purpose.

4.1.2 *Type II*—Cementable film. Type II materials can be subdivided into two grades:

4.1.2.1 *Grade 1*—One side cementable, and

4.1.2.2 *Grade 2*—Two sides cementable.

4.1.3 *Type III*—Special film for applications requiring unusual flexural endurance or extreme thermal and chemical service.

4.1.4 *Type IV*—Film for mold release applications.

4.2 A line callout system is used to specify materials in this standard. The system uses predefined cells to refer to specific aspects of this specification, which are illustrated as follows:

⁴ Available from Technical Association of the Pulp and Paper Industry (TAPPI), 15 Technology Parkway South, Norcross, GA 30092, <http://www.tappi.org>.

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