



Designation: D2673 – 14 (Reapproved 2022)

Standard Specification for Oriented Polypropylene Film¹

This standard is issued under the fixed designation D2673; 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 specification covers oriented polypropylene (OPP) film in the thickness range from 10 to 75 μm (0.4 to 3.0 mils).

1.2 The film can contain colorants, stabilizers, or other additives, and can be coated for the improvement of performance properties (heat sealability, gas permeability, and so forth).

1.3 The film can be annealed (heat-set) to reduce the unrestrained linear shrinkage and shrink tension on exposure to heat.

1.4 The values stated in SI units are to be regarded as standard. The values given in parentheses are for information only.

1.5 The following safety hazards caveat pertains only to the test methods portion, Section 7, 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, 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.

1.6 *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

D618 Practice for Conditioning Plastics for Testing

D882 Test Method for Tensile Properties of Thin Plastic Sheeting

¹ This specification is under the jurisdiction of ASTM Committee D20 on Plastics and is the direct responsibility of Subcommittee D20.19 on Film, Sheeting, and Molded Products.

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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.

D1003 Test Method for Haze and Luminous Transmittance of Transparent Plastics

D1434 Test Method for Determining Gas Permeability Characteristics of Plastic Film and Sheeting

D1746 Test Method for Transparency of Plastic Sheeting

D1894 Test Method for Static and Kinetic Coefficients of Friction of Plastic Film and Sheeting

D1922 Test Method for Propagation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method

D2457 Test Method for Specular Gloss of Plastic Films and Solid Plastics

D2578 Test Method for Wetting Tension of Polyethylene and Polypropylene Films

D2732 Test Method for Unrestrained Linear Thermal Shrinkage of Plastic Film and Sheeting

D2838 Test Method for Shrink Tension and Orientation Release Stress of Plastic Film and Thin Sheeting

D3354 Test Method for Blocking Load of Plastic Film by the Parallel Plate Method

D3892 Practice for Packaging/Packing of Plastics

D3985 Test Method for Oxygen Gas Transmission Rate Through Plastic Film and Sheeting Using a Coulometric Sensor

D4000 Classification System for Specifying Plastic Materials

D4101 Classification System and Basis for Specification for Polypropylene Injection and Extrusion Materials

D4321 Test Method for Package Yield of Plastic Film

D5946 Test Method for Corona-Treated Polymer Films Using Water Contact Angle Measurements

D6988 Guide for Determination of Thickness of Plastic Film Test Specimens

E96/E96M Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials

E1870 Test Method for Odor and Taste Transfer from Polymeric Packaging Film

F88/F88M Test Method for Seal Strength of Flexible Barrier Materials

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *nominal thickness, width, yield*—target values to be as agreed upon between the seller and the purchaser.

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