

ASTM Volume 08.02, May 2026

Table of Contents

D4065-20 Standard Practice for Plastics: Dynamic Mechanical Properties: Determination and Report of Procedures

D5048-20a Standard Test Method for Measuring the Comparative Burning Characteristics and Resistance to Burn-Through of Solid Plastics Using a 125-mm Flame

D4889-21 Standard Test Methods for Polyurethane Raw Materials: Determination of Viscosity of Crude or Modified Isocyanates

D3295-20 Standard Specification for PTFE Tubing, Miniature Beading and Spiral Cut Tubing

D3453-20 Standard Specification for Flexible Cellular Materials—Urethane for Furniture and Automotive Cushioning, Bedding, and Similar Applications

D3367-21 Standard Test Method for Plasticizer Sorption of Poly(Vinyl Chloride) Resins Under Applied Centrifugal Force

D4459-21 Standard Practice for Xenon-Arc Exposure of Plastics Intended for Indoor Applications

D3420-21 Standard Test Method for Pendulum Impact Resistance of Plastic Film

D4549-15(2021) Standard Classification System and Basis for Specification for Polystyrene and Rubber-Modified Polystyrene Molding and Extrusion Materials (PS)

D4473-08(2021) Standard Test Method for Plastics: Dynamic Mechanical Properties: Cure Behavior

D4475-21 Standard Test Method for Apparent Horizontal Shear Strength of Pultruded Reinforced Plastic Rods By the Short-Beam Method

D4819-13(2021)e1 Standard Specification for Flexible Cellular Materials Made From Polyolefin Plastics

D4671-21 Standard Test Method for Polyurethane Raw Materials:
Determination of Unsaturation of Polyols

D4329-21 Standard Practice for Fluorescent Ultraviolet (UV) Lamp Apparatus
Exposure of Plastics

D3465-21 Standard Guide for Purity of Monomeric Plasticizers by Gas
Chromatography

D4275-17 Standard Test Method for Determination of Butylated Hydroxy
Toluene (BHT) in Polymers of Ethylene and Ethylene–Vinyl Acetate (EVA)
Copolymers by Gas Chromatography

D3574-17 Standard Test Methods for Flexible Cellular Materials—Slab,
Bonded, and Molded Urethane Foams

D5083-17 Standard Test Method for Tensile Properties of Reinforced
Thermosetting Plastics Using Straight-Sided Specimens

D5028-17 Standard Test Method for Curing Properties of Pultrusion Resins by
Thermal Analysis

D3307-21 Standard Specification for Perfluoroalkoxy (PFA) Resin Molding and
Extrusion Materials

D3418-21 Standard Test Method for Transition Temperatures and Enthalpies of
Fusion and Crystallization of Polymers by Differential Scanning Calorimetry

D3965-21 Standard Classification System and Basis for Specifications for Rigid
Acrylonitrile-Butadiene-Styrene (ABS) Materials for Pipe and Fittings

D3222-21 Standard Specification for Unmodified Poly(Vinylidene Fluoride)
(PVDF) Molding Extrusion and Coating Materials

D4754-18 Standard Test Method for Two-Sided Liquid Extraction of Plastic
Materials Using FDA Migration Cell

D4603-18 Standard Test Method for Determining Inherent Viscosity of Poly(Ethylene Terephthalate) (PET) by Glass Capillary Viscometer

D3826-18 Standard Practice for Determining Degradation End Point in Degradable Polyethylene and Polypropylene Using a Tensile Test

D3895-19 Standard Test Method for Oxidative-Induction Time of Polyolefins by Differential Scanning Calorimetry

D3749-19 Standard Test Method for Residual Vinyl Chloride Monomer in Poly(Vinyl Chloride) Resins by Gas Chromatographic Headspace Technique

D3596-19 Standard Practice for Determination of Gels (Fisheyes) In General-Purpose Poly(Vinyl Chloride) (PVC) Resins

D4443-19 Standard Test Method for Determining Residual Vinyl Chloride Monomer Content in PPB Range in Vinyl Chloride Homo- and Co-Polymers by Headspace Gas Chromatography

D3419-12(2019) Standard Practice for In-Line Screw-Injection Molding Test Specimens From Thermosetting Compounds

D3364-99(2019) Standard Test Method for Flow Rates for Poly(Vinyl Chloride) with Molecular Structural Implications

D4385-19 Standard Practice for Classifying Visual Defects in Thermosetting Reinforced Plastic Pultruded Products

D4020-18 Standard Specification for Ultra-High-Molecular-Weight Polyethylene Molding and Extrusion Materials

D4883-18 Standard Test Method for Density of Polyethylene by the Ultrasound Technique

D4218-20 Standard Test Method for Determination of Carbon Black Content in Polyethylene Compounds by the Muffle-Furnace Technique

D3801-20a Standard Test Method for Measuring the Comparative Burning Characteristics of Solid Plastics in a Vertical Position

D3575-20 Standard Test Methods for Flexible Cellular Materials Made from Olefin Polymers

D3795-20 Standard Test Method for Thermal Flow, Cure, and Behavior Properties of Pourable Thermosetting Materials by Torque Rheometer

D3769-20 Standard Test Method for Microcellular Urethanes—High-Temperature Sag

D5025-20a Standard Specification for Laboratory Burner Used for Small-Scale Burning Tests on Plastic Materials

D4976-12a(2020) Standard Specification for Polyethylene Plastics Molding and Extrusion Materials

D4526-20 Standard Practice for Determination of Volatiles in Polymers by Static Headspace Gas Chromatography

D3892-15(2020) Standard Practice for Packaging/Packing of Plastics

D4001-20 Standard Test Method for Determination of Weight-Average Molecular Weight of Polymers by Light Scattering

D4092-21 Standard Terminology for Plastics: Dynamic Mechanical Properties

D5071-06(2021) Standard Practice for Exposure of Photodegradable Plastics in a Xenon Arc Apparatus

D3354-21 Standard Test Method for Blocking Load of Plastic Film by the Parallel Plate Method

D3935-21 Standard Classification System and Basis for Specification for Polycarbonate (PC) Unfilled and Reinforced Material

D4364-13(2022)e1 Standard Practice for Performing Outdoor Accelerated Weathering Tests of Plastics Using Concentrated Sunlight

D3368-17(2022) Standard Specification for FEP Sheet and Film

D3851-17(2022) Standard Specification for Microcellular Polyurethane Shoe Soling Materials

D3768-22 Standard Test Method for Microcellular Urethanes—Flexural Recovery

D4591-22 Standard Test Method for Determining Temperatures and Heats of Transitions of Fluoropolymers by Differential Scanning Calorimetry

D4969-17(2022) Standard Specification for Polytetrafluoroethylene—(PTFE) Coated Glass Fabric

D3308-12(2022) Standard Specification for PTFE Resin Skived Tape

D3291-22 Standard Practice for Compatibility of Plasticizers in Poly(Vinyl Chloride) Plastics Under Compression

D4216-22 Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) and Related PVC and Chlorinated Poly(Vinyl Chloride) (CPVC) Building Products Compounds

D4986-22 Standard Test Method for Horizontal Burning Characteristics of Cellular Polymeric Materials

D4670-17(2022)e1 Standard Test Method for Polyurethane Raw Materials: Determination of Suspended Matter in Polyols

D3294-22 Standard Specification for Polytetrafluoroethylene (PTFE) Resin Molded Sheet and Molded Basic Shapes

D4349-22 Classification System and Basis for Specification for Polyphenylene Ether (PPE) Materials

D4634-16(2022) Standard Classification System and Basis for Specification for Styrene-Maleic Anhydride Molding and Extrusion Materials (S/MA)

D3591-22 Standard Test Method for Determining Logarithmic Viscosity Number of Poly(Vinyl Chloride) (PVC) in Formulated Compounds

D4396-22 Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds for Plastic Pipe and Fittings Used in Nonpressure Applications

D4350-16(2022) Standard Test Method for Corrosivity Index of Plastics and Fillers

D5045-14(2022) Standard Test Methods for Plane-Strain Fracture Toughness and Strain Energy Release Rate of Plastic Materials

D4093-23 Standard Test Method for Photoelastic Measurements of Birefringence and Residual Strains in Transparent or Translucent Plastic Materials

D3916-22 Standard Test Method for Tensile Properties of Pultruded Glass-Fiber-Reinforced Plastic Rod

D4673-23 Standard Classification System for and Basis for Specification for Acrylonitrile–Butadiene–Styrene (ABS) Plastics and Alloys Molding and Extrusion Materials

D4067-23 Standard Classification System and Basis for Specification for Reinforced and Filled Poly(Phenylene Sulfide) (PPS) Injection Molding and Extrusion Materials Using ASTM Methods

D4661-23 Standard Test Methods for Polyurethane Raw Materials: Determination of Total Chlorine in Isocyanates

D4273-23 Standard Test Method for Polyurethane Raw Materials: Determination of Primary Hydroxyl Content of Polyether Polyols

D4274-23 Standard Test Methods for Testing Polyurethane Raw Materials: Determination of Hydroxyl Numbers of Polyols

D4660-23 Standard Test Methods for Polyurethane Raw Materials: Determination of the Isomer Content of Toluenediisocyanate

D4000-23 Standard Classification System for Specifying Plastic Materials

D4878-23 Standard Test Methods for Polyurethane Raw Materials:
Determination of Viscosity of Polyols

D3275-18(2023) Standard Classification System for E-CTFE-Fluoroplastic
Molding, Extrusion, and Coating Materials

D4895-18(2023) Standard Specification for Polytetrafluoroethylene (PTFE)
Resin Produced From Dispersion

D3030-23 Standard Test Method for Volatile Matter (Including Water) of Vinyl
Chloride Resins

D3489-23 Standard Test Methods for Microcellular Urethane Materials

D4272/D4272M-23 Standard Test Method for Total Energy Impact of Plastic
Films by Dart Drop

D5047-17(2023) Standard Specification for Polyethylene Terephthalate Film
and Sheeting

D4204-16(2023) Standard Practice for Preparing Plastic Film Specimens for a
Round-Robin Study

D4397-16(2023) Standard Specification for Polyethylene Sheeting for
Construction, Industrial, and Agricultural Applications

D4440-23 Standard Test Method for Plastics: Dynamic Mechanical Properties
Melt Rheology

D5023-23 Standard Test Method for Plastics: Dynamic Mechanical Properties:
In Flexure (Three-Point Bending)

D5026-23 Standard Test Method for Plastics: Dynamic Mechanical Properties:
In Tension

D3763-23 Standard Test Method for High Speed Puncture Properties of
Plastics Using Load and Displacement Sensors

D3917-23 Standard Specification for Dimensional Tolerance of Thermosetting Glass-Reinforced Plastic Pultruded Shapes

D5024-23 Standard Test Method for Plastics: Dynamic Mechanical Properties: In Compression

D4875-24 Standard Test Methods of Polyurethane Raw Materials: Determination of the Polymerized Ethylene Oxide Content of Polyether Polyols

D4669-24 Standard Test Method for Polyurethane Raw Materials: Determination of Specific Gravity of Polyols

D4672-24 Standard Test Method for Polyurethane Raw Materials: Determination of Water Content of Polyols

D4101-24 Standard Classification System and Basis for Specification for Polypropylene Injection and Extrusion Materials

D3981-09a(2024)e1 Standard Specification for Polyethylene Films Made from Medium-Density Polyethylene for General Use and Packaging Applications

D3296-24 Standard Specification for FEP Resin Tube

D4745-19(2024) Standard Classification System and Basis for Specification for Filled Polytetrafluoroethylene (PTFE) Molding and Extrusion Materials Using ASTM Methods

D4894-19(2024) Standard Specification for Polytetrafluoroethylene (PTFE) Granular Molding and Ram Extrusion Materials

D4321-24 Standard Test Method for Package Yield of Plastic Film

D4890-24 Standard Test Methods for Polyurethane Raw Materials: Determination of Gardner and APHA (Platinum-Cobalt) Color of Polyols

D3350-24 Standard Specification for Polyethylene Plastics Pipe and Fittings Materials

D3835-24 Standard Test Method for Determination of Properties of Polymeric Materials by Means of a Capillary Rheometer

D3676-18(2024) Standard Specification for Rubber Cellular Cushion Used for Carpet or Rug Underlay

D3641-24 Standard Practice for Injection Molding Test Specimens of Thermoplastic Molding and Extrusion Materials

D5017-24 Standard Test Method for Determination of Linear Low Density Polyethylene (LLDPE) Composition by Carbon-13 Nuclear Magnetic Resonance

D4802-16(2024) Standard Specification for Poly(Methyl Methacrylate) Acrylic Plastic Sheet

D4877-24 Standard Test Method for Polyurethane Raw Materials: Determination of APHA (Platinum-Cobalt) Color of Isocyanates

D4703-24 Standard Practice for Compression Molding Thermoplastic Materials into Test Specimens, Plaques, or Sheets

D4801-08(2025) Standard Specification for Polyethylene Sheeting in Thickness of 0.25 mm (0.010 in.) and Greater

D3675-25 Standard Test Method for Surface Flammability of Flexible Cellular Materials Using a Radiant Heat Energy Source

D4635-25 Standard Specification for Plastic Films Made from Low-Density Polyethylene and Linear Low-Density Polyethylene for General Use and Packaging Applications

D3748-14(2025) Standard Practice for Evaluating High-Density Rigid Cellular Plastics

D3576-25 Standard Test Method for Cell Size of Rigid Cellular Plastics

D3914-02(2025)e1 Standard Test Method for In-Plane Shear Strength of Pultruded Glass-Reinforced Plastic Rod

D4441-20(2025) Standard Specification for Aqueous Dispersions of Polytetrafluoroethylene

D4663-25 Standard Test Method for Polyurethane Raw Materials: Determination of Hydrolyzable Chlorine of Isocyanates

D3595-25 Standard Specification for Polychlorotrifluoroethylene (PCTFE) Extruded Plastic Film

D4804-25 Standard Test Method for Determining the Flammability Characteristics of Nonrigid Solid Plastics

D4812-25 Standard Test Method for Unnotched Cantilever Beam Impact Resistance of Plastics

D4662-25 Standard Test Methods for Polyurethane Raw Materials: Determination of Acid and Alkalinity Numbers of Polyols

D4968-25 Standard Practice for Annual Review of Test Methods and Specifications for Plastics

D4203-25 Standard Classification System for and Basis for Specifications for Styrene-Acrylonitrile (SAN) Molding and Extrusion Materials

D4066-13(2025) Standard Classification System for Nylon Injection and Extrusion Materials (PA)

D4674-25 Standard Practice for Accelerated Testing for Color Stability of Plastics Exposed to Indoor Office Environments