ASTM Volume 04.13, September 2024

D7180/D7180M-05(2021) Standard Guide for Use of Expanded Polystyrene (EPS) Geofoam in Geotechnical Projects

D5596-03(2021) Standard Test Method for Microscopic Evaluation of the Dispersion of Carbon Black in Polyolefin Geosynthetics

D4873/D4873M-17(2021) Standard Guide for Identification, Storage, and Handling of Geosynthetic Rolls and Samples

D5970/D5970M-16(2021) Standard Test Method for Deterioration of Geotextiles from Outdoor Exposure

D6524/D6524M-16(2021) Standard Test Method for Measuring the Resiliency of Turf Reinforcement Mats (TRMs)

D6574/D6574M-13(2021) Standard Test Method for Determining the (In-Plane) Hydraulic Transmissivity of a Geosynthetic by Radial Flow

D7557/D7557M-09(2021) Standard Practice for Sampling of Expanded Polystyrene Geofoam Specimens

D6817/D6817M-17(2021) Standard Specification for Rigid Cellular Polystyrene Geofoam

D7177/D7177M-21 Standard Specification for Air Channel Evaluation of Polyvinyl Chloride (PVC) Dual Track Seamed Geomembranes

D6388-18 Standard Practice for Tests to Evaluate the Chemical Resistance of Geonets to Liquids

D5885/D5885M-20 Standard Test Method for Oxidative Induction Time of Polyolefin Geosynthetics by High-Pressure Differential Scanning Calorimetry

D6638-18 Standard Test Method for Determining Connection Strength Between Geosynthetic Reinforcement and Segmental Concrete Units (Modular Concrete Blocks)

D5890-19 Standard Test Method for Swell Index of Clay Mineral Component of Geosynthetic Clay Liners

D7909-21a Standard Guide for Placement of Intentional Leaks During Electrical Leak Location Surveys of Geomembranes

D6767-21 Standard Test Method for Pore Size Characteristics of Geotextiles by Capillary Flow Test

D8329-21 Standard Test Method for Determination of Water/Cementitious Materials Ratio for Geosynthetic Cementitious Composite Mats (GCCMs) and Measurement of the Compression Strength of the Cementitious Material Contained Within

D6497/D6497M-02(2021) Standard Guide for Mechanical Attachment of Geomembrane to Penetrations or Structures

D5994/D5994M-10(2021) Standard Test Method for Measuring Core Thickness of Textured Geomembranes

D7982-15(2021) Standard Practice for Testing of Factory Thermo-Fusion Seams for Fabricated Geomembrane Panels

D7865-13(2021) Standard Guide for Identification, Packaging, Handling, Storage, and Deployment of Fabricated Geomembrane Panels

D7004/D7004M-03(2021) Standard Test Method for Grab Tensile Properties of Reinforced Geomembranes

D7003/D7003M-03(2021) Standard Test Method for Strip Tensile Properties of Reinforced Geomembranes

D5321/D5321M-21 Standard Test Method for Determining the Shear Strength of Soil-Geosynthetic and Geosynthetic-Geosynthetic Interfaces by Direct Shear

D8117-21 Standard Test Method for Oxidative Induction Time of Polyolefin Geosynthetics

by Differential Scanning Calorimetry

D7005/D7005M-16 Standard Test Method for Determining the Bond Strength (Ply Adhesion) of Geocomposites

D7007-16 Standard Practices for Electrical Methods for Locating Leaks in Geomembranes Covered with Water or Earthen Materials

D5747/D5747M-21 Standard Practice for Tests to Evaluate the Chemical Resistance of Geomembranes to Liquids

D8364/D8364M-21 Standard Specification for Geosynthetic Cementitious Composite Mat (GCCM) Materials

D4355/D4355M-21 Standard Test Method for Deterioration of Geotextiles by Exposure to Light, Moisture, and Heat in a Xenon Arc-Type Apparatus

D6818-21 Standard Test Method for Tensile Properties of Rolled Erosion Control Products

D5262-21 Standard Test Method for Determining the Unconfined Tension Creep and Creep Rupture Behavior of Planar Geosynthetics Used for Reinforcement Purposes

D5641/D5641M-16 Standard Practice for Geomembrane Seam Evaluation by Vacuum Chamber

D7702/D7702M-14(2021) Standard Guide for Considerations When Evaluating Direct Shear Results Involving Geosynthetics

D8102-17 Standard Practice for Manufacturing Quality Control of Geotextiles

D6706-01(2021) Standard Test Method for Measuring Geosynthetic Pullout Resistance in Soil

D7748/D7748M-14(2021) Standard Test Method for Flexural Rigidity of Geogrids, Geotextiles, and Related Products

D8057-17 Standard Specification for Inlet Filters with a Rigid Frame

D6454/D6454M-99(2021) Standard Test Method for Determining the Short-Term Compression Behavior of Turf Reinforcement Mats (TRMs)

D8269-21 Standard Guide for the Use of Geocells in Geotechnical and Roadway Projects

D6213-17 Standard Practice for Tests to Evaluate the Chemical Resistance of Geogrids to Liquids

D6747-21 Standard Guide for Selection of Techniques for Electrical Leak Location of Leaks in Geomembranes

D2643/D2643M-21 Standard Specification for Prefabricated Bituminous Geomembrane Used as Canal and Ditch Liner (Exposed Type)

D4751-21a Standard Test Methods for Determining Apparent Opening Size of a Geotextile

D7240-18 Standard Practice for Electrical Leak Location Using Geomembranes with an Insulating Layer in Intimate Contact with a Conductive Layer via Electrical Capacitance Technique (Conductive-Backed Geomembrane Spark Test)

D7056-07(2018) Standard Test Method for Determining the Tensile Shear Strength of Prefabricated Bituminous Geomembrane Seams

D5514/D5514M-18 Standard Test Method for Large-Scale Hydrostatic Puncture Testing of Geosynthetics

D7275-07(2018) Standard Test Method for Tensile Properties of Bituminous Geomembranes (BGMs)

D7274-06A(2018)e1 Standard Test Method for Mineral Stabilizer Content of Prefabricated Bituminous Geomembranes (PBGMs)

D6244-06(2018) Standard Test Method for Vertical Compression of Geocomposite Pavement Panel Drains

D6365-99(2018) Standard Practice for Nondestructive Testing of Geomembrane Seams Using the Spark Test

D6364-06(2018) Standard Test Method for Determining Short-Term Compression Behavior of Geosynthetics

D6455-11(2018) Standard Guide for the Selection of Test Methods for Prefabricated Bituminous Geomembranes (PBGMs)

D6434-12(2018) Standard Guide for the Selection of Test Methods for Flexible Polypropylene Geomembranes

D5261-10(2018) Standard Test Method for Measuring Mass per Unit Area of Geotextiles

D5567-94(2018) Standard Test Method for Hydraulic Conductivity Ratio (HCR) Testing of Soil/Geotextile Systems

D7179-18 Standard Test Method for Determining Geonet Breaking Force

D6916-18 Standard Test Method for Determining the Shear Strength Between Segmental Concrete Units (Modular Concrete Blocks)

D8105-18 Standard Guide for Use and Application of Geosynthetic Reinforcement Reduction Factor Test Results

D6707/D6707M-06(2019) Standard Specification for Circular-Knit Geotextile for Use in Subsurface Drainage Applications

D7556-10(2019) Standard Test Methods for Determining Small-Strain Tensile Properties of Geogrids and Geotextiles by In-Air Cyclic Tension Tests

D5888-19 Standard Guide for Storage and Handling of Geosynthetic Clay Liners

D5199-12(2019) Standard Test Method for Measuring the Nominal Thickness of Geosynthetics

D5891/D5891M-19 Standard Test Method for Fluid Loss of Clay Component of Geosynthetic Clay Liners

D7953-20 Standard Practice for Electrical Leak Location on Exposed Geomembranes Using the Arc Testing Method

D7406-20 Standard Test Method for Time-Dependent Compressive Deformation Under Constant Pressure for Geosynthetic Drainage Products

D7001-20 Standard Specification for Geocomposites for Pavement Edge Drains and Other High-Flow Applications

D7408-12(2020) Standard Specification for Non-Reinforced PVC (Polyvinyl Chloride) Geomembrane Seams

D6243/D6243M-20 Standard Test Method for Determining the Internal and Interface Shear Strength of Geosynthetic Clay Liner by the Direct Shear Method

D7407-07(2020) Standard Guide for Determining the Transmission of Gases Through Geomembranes

D6766-20a Standard Test Method for Evaluation of Hydraulic Properties of Geosynthetic Clay Liners Permeated with Potentially Incompatible Aqueous Solutions

D4354-12(2020) Standard Practice for Sampling of Geosynthetics and Rolled Erosion Control Products (RECPs) for Testing

D6768/D6768M-20 Standard Test Method for Tensile Strength of Geosynthetic Clay Liners

D4833/D4833M-07(2020) Standard Test Method for Index Puncture Resistance of Geomembranes and Related Products

D7273/D7273M-08(2020) Standard Guide for Acceptance Testing Requirements for Geonets and Geonet Drainage Geocomposites

D7853-13(2020) Standard Test Method for Hydraulic Pullout Resistance of a Geomembrane with Locking Extensions Embedded in Concrete

D5397-20 Standard Test Method for Evaluation of Stress Crack Resistance of Polyolefin Geomembranes Using Notched Constant Tensile Load Test

D6693/D6693M-20 Standard Test Method for Determining Tensile Properties of Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembranes

D7238-20 Standard Test Method for Effect of Exposure of Unreinforced Polyolefin Geomembrane Using Fluorescent UV Condensation Apparatus

D4594/D4594M-96(2020) Standard Test Method for Effects of Temperature on Stability of Geotextiles

D5496-15(2020) Standard Practice for In-Field Immersion Testing of Geosynthetics

D7409-15(2020) Standard Test Method for Carboxyl End Group Content of Polyethylene Terephthalate (PET) Yarns

D4759-11(2018)e1 Standard Practice for Determining the Specification Conformance of Geosynthetics

D7931/D7931M-21a Standard Guide for Specifying Drainage Geocomposites

D5721-22 Standard Practice for Air-Oven Aging of Polyolefin Geomembranes

D6461/D6461M-22 Standard Specifications for Silt Fence Materials

D8427-21 Standard Specification for Rigid Poly Vinyl Chloride (PVC) Exterior Profiles Used for Sheet Piling

D6917-16(2022) Standard Guide for Selection of Test Methods for Prefabricated Vertical Drains (PVD)

D7008-08(2022) Standard Specification for Geosynthetic Alternate Daily Covers

D7498/D7498M-09(2022) Standard Test Method for Vertical Strip Drains Using a Large-Scale Consolidation Test

D6088-06(2022) Standard Practice for Installation of Geocomposite Pavement Drains

D5819-22 Standard Guide for Selecting Test Methods for Experimental Evaluation of Geosynthetic Durability

D1987-22 Standard Test Method for Biological Clogging of Geotextile, Drainage Geocomposites, or Soil/Geotextile Filters

D4491/D4491M-22 Standard Test Methods for Water Permeability of Geotextiles by Permittivity

D4716/D4716M-22 Standard Test Method for Determining the (In-plane) Flow Rate per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head

D7002-22 Standard Practice for Electrical Leak Location on Exposed Geomembranes Using the Water Puddle Method

D7700-22 Standard Guide for Selecting Test Methods for Geomembrane Seams

D7703-22 Standard Practice for Electrical Leak Location on Exposed Geomembranes Using the Water Lance Method

D6575/D6575M-22 Standard Test Method for Determining Stiffness of Geosynthetics Used as Turf Reinforcement Mats (TRMs)

D8462-22 Standard Test Method for Cyclic Plate Load Tests to Evaluate the Structural Performance of Roadway Test Sections with Geosynthetics

D5818-22 Standard Practice for Exposure and Retrieval of Samples to Evaluate Installation Damage of Geosynthetics

D4884/D4884M-22 Standard Test Method for Strength of Sewn or Bonded Seams of

Geotextiles

D6918-09(2022) Standard Test Method for Testing Vertical Strip Drains in the Crimped Condition

D5889/D5889M-18(2022) Standard Practice for Quality Control of Geosynthetic Clay Liners

D5993-18(2022) Standard Test Method for Measuring Mass per Unit Area of Geosynthetic Clay Liners

D6141-18(2022) Standard Guide for Screening Clay Portion and Index Flux of Geosynthetic Clay Liner (GCL) for Chemical Compatibility to Liquids

D6495/D6495M-18(2022) Standard Guide for Acceptance Testing Requirements for Geosynthetic Clay Liners

D8204-18(2022) Standard Practice for Burial and Retrieval of Samples in a Test Pad to Evaluate Installation Effects on Geosynthetic Clay Liners

D7176-22 Standard Specification for Non-Reinforced Polyvinyl Chloride (PVC) Geomembranes Used in Buried Applications

D6523-22 Standard Guide for Evaluation and Selection of Alternative Daily Covers (ADCs) for Sanitary Landfills

D7178-22 Standard Practice for Determining the Number of Constrictions "m" of Non-Woven Geotextiles

D6140-22 Standard Test Method to Determine Asphalt Retention of Paving Fabrics Used in Asphalt Paving for Full-Width Applications

D6241-22a Standard Test Method for Measuring Static Puncture Strength of Geotextiles and Geosynthetic-Related Products Using a 50 mm Probe

D7880/D7880M-22 Standard Test Method for Determining Flow Rate of Water and

Suspended Solids Retention from a Closed Geosynthetic Bag

D7239-13(2023) Standard Specification for Hybrid Geosynthetic Paving Mat for Highway Applications

D8468-23 Standard Practice for Data Recording Procedure for Welding Devices Used to Produce Thermal Fusion Welds in Geomembrane Systems

D7499/D7499M-09(2023) Standard Test Method for Measuring Geosynthetic-Soil Resilient Interface Shear Stiffness

D8030/D8030M-23 Standard Practice for Sample Preparation for GCCM

D8058-23 Standard Test Method for Determining the Flexural Strength of a Geosynthetic Cementitious Composite Mat (GCCM) Using the Three-Point Bending Test

D7465/D7465M-15(2023) Standard Specification for Ethylene Propylene Diene Terpolymer (EPDM) Sheet Used In Geomembrane Applications

D4632/D4632M-15a(2023) Standard Test Method for Grab Breaking Load and Elongation of Geotextiles

D6102-23 Standard Guide for Installation of Geosynthetic Clay Liners

D4885-01(2023) Standard Test Method for Determining Performance Strength of Geomembranes by the Wide Strip Tensile Method

D6496/D6496M-23a Standard Test Method for Determining Average Bonding Peel Strength Between Top and Bottom Layers of Needle-Punched Geosynthetic Clay Liners

D6525/D6525M-18(2023) Standard Test Method for Measuring Nominal Thickness of Rolled Erosion Control Products

D6566-18(2023) Standard Test Method for Measuring Mass Per Unit Area of Turf Reinforcement Mats

D8172/D8172M-18(2023)e1 Standard Test Method for Shear and Peel Strength of Solvent-Welded Seams with Nonreinforced Geomembranes

D4595/D4595M-23 Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Method

D5323-19a(2023) Standard Practice for Determination of 2 % Secant Modulus for Polyethylene Geomembranes

D5494-93(2023) Standard Test Method for the Determination of Pyramid Puncture Resistance of Unprotected and Protected Geomembranes

D5886-95(2023) Standard Guide for Selection of Test Methods to Determine Rate of Fluid Permeation Through Geomembranes for Specific Applications

D6636-01(2023) Standard Test Method for Determination of Ply Adhesion Strength of Reinforced Geomembranes

D7272-06(2023) Standard Test Method for Determining the Integrity of Seams Used in Joining Geomembranes by Premanufactured Taped Methods

D8203-18(2023) Standard Test Method for Determination of the Horizontal Water Flow Rate of a Geosynthetic Screening Material, Product, or Device

D5493-23 Standard Test Method for Permittivity of Geotextiles Under Load

D7613-17(2023) Standard Specification for Flexible Polypropylene Reinforced (fPP-R) and Nonreinforced (fPP) Geomembranes

D7737/D7737M-15(2023) Standard Test Method for Individual Geogrid Junction Strength

D7864/D7864M-15(2023) Standard Test Method for Determining the Aperture Stability Modulus of Geogrids

D4533/D4533M-15(2023) Standard Test Method for Trapezoid Tearing Strength of Geotextiles

D8490-23a Standard Test Method for Determining the Pore Size Characteristics of Geotextiles Using an Optical Method

D6072/D6072M-19e1 Standard Practice for Obtaining Samples of Geosynthetic Clay Liners

D7852-23 Standard Practice for Use of an Electrically Conductive Geotextile for Leak Location Surveys

D8173-23 Standard Guide for Site Preparation, Layout, Installation, and Hydration of Geosynthetic Cementitious Composite Mats

D4439-23b Standard Terminology for Geosynthetics

D5141-23 Standard Test Method for Determining Filtering Efficiency and Flow Rate of the Filtration Component of a Sediment Retention Device

D6992-16(2023) Standard Test Method for Accelerated Tensile Creep and Creep-Rupture of Geosynthetic Materials Based on Time-Temperature Superposition Using the Stepped Isothermal Method

D7106/D7106M-05(2023) Standard Guide for Selection of Test Methods for Ethylene Propylene Diene Terpolymer (EPDM) Geomembranes

D7361-07(2023) Standard Test Method for Accelerated Compressive Creep of Geosynthetic Materials Based on Time-Temperature Superposition Using the Stepped Isothermal Method

D4886-23 Standard Test Method for Abrasion Resistance of Geotextiles (Sandpaper/Sliding Block Method)

D5322-23 Standard Practice for Laboratory Immersion Procedures for Evaluating the Chemical Resistance of Geosynthetics to Liquids

D6389-23 Standard Practice for Tests to Evaluate the Chemical Resistance of Geotextiles to Liquids

D8480-23 Standard Test Method for Determining the Tensile Strength of GCCM Materials

D5101-23 Standard Test Method for Measuring the Filtration Compatibility of Soil-Geotextile Systems

D8265-23 Standard Practices for Electrical Methods for Mapping Leaks in Installed Geomembranes

D5887/D5887M-23 Standard Test Method for Measurement of Index Flux Through Saturated Geosynthetic Clay Liner Specimens Using a Flexible Wall Permeameter

D6392-23 Standard Test Method for Determining the Integrity of Nonreinforced Geomembrane Seams Produced Using Thermo-Fusion Methods

D4437/D4437M-16(2023) Standard Practice for Nondestructive Testing (NDT) for Determining the Integrity of Seams Used in Joining Flexible Polymeric Sheet Geomembranes

D5820-95(2023) Standard Practice for Pressurized Air Channel Evaluation of Dual-Seamed Geomembranes

D7747/D7747M-11(2023) Standard Test Method for Determining Integrity of Seams Produced Using Thermo-Fusion Methods for Reinforced Geomembranes by the Strip Tensile Method

D7749/D7749M-11(2023)e1 Standard Test Method for Determining Integrity of Seams Produced Using Thermo-Fusion Methods for Reinforced Geomembranes by the Grab Method

D6637/D6637M-15(2023) Standard Test Method for Determining Tensile Properties of Geogrids by the Single or Multi-Rib Tensile Method

D6214/D6214M-23 Standard Test Method for Determining the Integrity of Field Seams Used in Joining Geomembranes by Chemical Fusion Methods

D6567-23 Standard Test Method for Measuring the Light Penetration of a Rolled Erosion Control Product (RECP)

D7006-23 Standard Practice for Ultrasonic Testing of Geomembranes

D7466/D7466M-23 Standard Test Method for Measuring Asperity Height of Textured Geomembranes

D5884/D5884M-23 Standard Test Method for Determining Tearing Strength of Internally Reinforced Geomembranes

D5617-23 Standard Test Method for Multi-Axial Elongation of Geomembranes