



## SCOPE OF ACCREDITATION

**GROUPE CTT INC. / CTT GROUP INC.**  
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Accredited Laboratory No. 40  
(Conforms with requirements of ISO/IEC 17025:2005)

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CLIENTS SERVED: Services offered to all customers

FIELDS OF TESTING: Chemical/Physical, Mechanical/Physical, Thermal & Fire Resistance

INITIAL ACCREDITATION DATE : 1987-08-13

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**Remarque:** La présente portée d'accréditation existe également en français, sous la forme d'un document distinct.

**Note:** This scope of accreditation is also available in French as a separately issued document.

### **ANIMAL AND PLANTS (AGRICULTURE)**

#### **Animal and Fishery Products: (except food)**

##### **Leathers**

ASTM D2212 Standard Test Method for Slit Tear Resistance of Leather

##### **Soils**

ASTM D3080 Standard Test Method for Direct Shear Test of Soils Under Consolidated Drained Conditions



ASTM D422

Standard Test Method for Particle-Size Analysis of Soils

## **CONSTRUCTION**

### **(Geosynthetics)**

ASTM D1203	Test Method for Volatile Loss from Plastic Film Using activated Carbon
ASTM D1593	Specification for Nonrigid Vinyl Chloride Plastic Sheeting (thickness)
ASTM D3083	Specification for Flexible Poly (Vinyl Chloride) Plastic Sheeting for Pond, Canal and Reservoir Lining Only for: Tensile Strength, Water Extraction, Tear Resistance, Shrinkage, Thickness, Soil Burial
ASTM D4218	Standard Test Method for Determination of Carbon Black Content in Polyethylene Compounds By the Muffle-Furnace Technique
ASTM D4355	Standard Test Method for Deterioration of Geotextiles from Exposure to Ultraviolet Light and Water (Xenon-Arc Type Apparatus)
ASTM D4437-99	Standard Practice for Determining the Integrity of Field Seams Used in Joining Flexible Polymeric Sheet Geomembranes
ASTM D4491	Standard Test Method for Water Permeability of Geotextiles by Permittivity
ASTM D4533	Standard Test Method for Trapezoid Tearing Strength of Geotextiles
ASTM D4545	Standard Practice for Determining the Integrity of Factory Seams Used in Joining Manufactured Flexible Sheet Geomembranes
ASTM D4595	Standard Test Method for Tensile Properties of Geotextiles by the Wide-Width Strip Method
ASTM D4632	Standard Test Method for Grab Breaking Load and Elongation of Geotextiles
ASTM D4716	Test Method for Determining the (In-plane) Floe Rate per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head
ASTM D4751	Standard Test Method for Determining Apparent Opening Size of a Geotextile
ASTM D4833	Standard Test Method for Index Puncture Resistance of Geotextiles, Geomembranes and Related Products
ASTM D4884	Standard Test Method for Strength of Sewn or Thermally Bonded Seams of Geotextiles
ASTM D4885	Standard Test Method for Determining Performance Strength of Geomembranes by the Wide Strip Tensile Method



ASTM D5084	Standard Test Methods for Measurement of Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter
ASTM D5101	Standard Test Method for Measuring the Soil-Geotextile System Clogging Potential by the Gradient Ratio
ASTM D5199	Standard Test Method for Measuring the Nominal Thickness of Geosynthetics
ASTM D5261	Standard Test Method for Measuring Mass per Unit Area of Geotextiles
ASTM D5321	Standard Test Method for Determining the Coefficient of Soil and Geosynthetic or Geosynthetic and Geosynthetic Friction by the Direct Shear Method
ASTM D5322	Standard Practice for Immersion Procedures for Evaluating the Chemical Resistance of Geosynthetics to Liquids
ASTM D5397	Standard Test Method for Evaluation of Stress Crack Resistance of Polyolefin Geomembranes Using Notched Constant Tensile Load Test
ASTM D5493	Standard Test Method for Permittivity of Geotextiles Under Load
ASTM D5514	Standard Test Method for Large Scale Hydrostatic Puncture Testing of Geosynthetics
ASTM D5596	Standard Test Method for Microscopic Evaluation of the Dispersion of Carbon Black in Polyolefin Geosynthetics
ASTM D5617	Standard Test Method for Multi-Axial Tension Test for Geosynthetics
ASTM D5721	Standard Practice for Air-Oven Aging of Polyolefin Geomembranes
ASTM D5747	Standard Practice for Tests to Evaluate the Chemical Resistance of Geomembranes to Liquids
ASTM D5884	Standard Test Method for Determining Tearing Strength of Internally Reinforced Geomembranes
ASTM D5885	Standard Test Method for Oxidative Induction Time of Polyolefin Geosynthetics by High-Pressure Differential Scanning Calorimetry
ASTM D5887	Standard Test Method for Measurement of Index Flux Through Saturated Geosynthetic Clay Liner Specimens Using a Flexible Wall Permeameter
ASTM D5890	Standard Test Method for Swell Index of Clay Mineral Component of Geosynthetic Clay Liners
ASTM D5891	Standard Test Method for Fluid Loss of Clay Component of Geosynthetic Clay Liners
ASTM D5993	Standard Test Method for Measuring Mass per Unit of Geosynthetic Clay Liners
ASTM D5994	Standard Practice for Measuring Core Thickness of Textured Geomembrane
ASTM D6140	Standard Test Method to Determine Asphalt Retention of Paving Fabrics Used in Asphalt Paving for Full-Width Applications



ASTM D6241	Standard Test Method for the Static Puncture Strength of Geotextiles and Geotextile-Related Products Using a 50-mm Probe
ASTM D6243	Standard Test Method for Determining the Internal and Interface Shear Resistance of Geosynthetic Clay Liner by the Direct Shear Method
ASTM D6364	Standard Test Method for Determining the Short-Term Compression Behavior of Geosynthetics
ASTM D6392	Standard Test Method for Determining the Integrity of Nonreinforced Geomembrane Seams Produced Using Thermo-Fusion Methods
ASTM D6496	Standard Test Method for Determining Average Bonding Peel Strength Between the Top and Bottom Layers of Needle-Punched Geosynthetic Clay Liners
ASTM D6567	Standard Test Method for Measuring the Light Penetration of a Turf Reinforcement Mat (TRM)
ASTM D6574	Test Method for Determining the (In-Plane) Hydraulic Transmissivity of a Geosynthetic by Radial Flow
ASTM D6637	Standard Test Method for Determining Tensile Properties of Geogrids by the Single or Multi-Rib Tensile Method
ASTM D6693	Standard Test Method for Determining Tensile Properties of Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembranes
ASTM D6707	Standard Specification for Circular-Knit Geotextile for Use in Subsurface Drainage Applications
ASTM D6766	Test Method for Evaluation of Hydraulic Properties of Geosynthetic Clay Liners Permeated with potentially Incompatible Liquids
ASTM D6767	Standard Test Method for Pore Size Characteristics of Geotextiles by Capillary Flow Test
ASTM D6768	Standard Test Method for Tensile Strength of Geosynthetic Clay Liners
ASTM D6992	Standard Test Method for Accelerated Tensile Creep and Creep-Rupture of Geosynthetic Materials Based on Time-Temperature Superposition Using the Stepped Isothermal Method
ASTM D7003	Test Method for Strip Tensile Properties of Reinforced Geomembranes
ASTM D7004	Test Method for Grab Tensile Properties of Reinforced Geomembranes
ASTM D7005	Test Method for Determining the Bond Strength (Ply Adhesion) of Geocomposites
ASTM D7056	Standard Test Method for Determining the Tensile Shear Strength of Pre Fabricated Bituminous Geomembrane Seams
ASTM D7179	Determining Geonet Breaking Force



ASTM D7238	Standard Test Method for Effect of Exposure of Unreinforced Polyolefin Geomembrane Using Fluorescent UV Condensation Apparatus
ASTM D7272	Standard Test Method for Determining the Integrity of Seams Used in Joining Geomembranes by Pre-manufactured Taped Methods
ASTM D7274	Standard Test Method for Mineral Stabilizer
ASTM D7275	Standard Test Method for Tensile Properties of Bituminous Geomembranes (BGM)
ASTM D7361	Standard Test Method for Accelerated Compressive Creep of Geosynthetic Materials Based on Time-Temperature Superposition Using the Stepped Isothermal Method
ASTM D7466	Standard Test Method for Measuring the Asperity Height of Textured Geomembrane
ASTM D7737	Standard Test Method for Individual Geogrid Junction Strength
ASTM D7747	Standard Test Method for Determining Integrity of Seams Produced Using Thermo-Fusion Methods for Reinforced Geomembranes by the Strip Tensile Method
ASTM D7748	Standard Test Method for Flexural Rigidity of Geogrids, Geotextiles and Related Products
ASTM D7749	Standard Test Method for Determining Integrity of Seams Produced Using Thermo-Fusion Methods for Reinforced Geomembranes by the Grab Method
ASTM E154	Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover
BNQ 3624-110	Tuyaux annelés semi-rigides et raccords en thermoplastique, de diamètre égal ou supérieur à 300mm, pour l'évacuation des eaux de surface et l'égout pluvial
BNQ 3624-115	Tuyaux et raccords en polyéthylène (PE) -Tuyaux annelés flexibles pour le drainage - Caractéristiques et méthodes d'essais
BNQ 3624-120	Tuyaux annelés à intérieur lisse et raccords en plastique PE ou PP pour l'évacuation des eaux pluviales
CAN/CGSB 148.1-10	Geotextiles - Filtration Opening Size
CAN/CGSB 148.1-14	Stiffness of Geotextiles
CAN/CGSB 148.1-2	Mass per Unit Area (geotextiles and geomembranes)
CAN/CGSB 148.1-3	Thickness of Geotextiles
CAN/CGSB 148.1-4	Geotextiles - Normal Water Permeability Under No Compressive Load
CAN/CGSB 148.1-7.3	Grab Tensile Test for Geotextiles
EN 12226	Geotextiles and Geotextiles-Related Products-General Tests for Evaluation Following Durability Testing
EN 12447	Geotextiles and geotextile-related products - Screening test method for determining the resistance to hydrolysis in water



EN 13562	Géotextiles et produits apparentés - Détermination de la résistance à la pénétration d'eau (essai sous pression hydrostatique)
EN 14030	Geotextiles and geotextile-related products - Screening test method for determining the resistance to acid and alkaline liquids
EN 14575	Geosynthetic barriers - Screening test method for determining the resistance to oxidation
EN 14576	Geosynthetics-Test methods for determining the resistance of polymeric geosynthetic barriers to environmental stress cracking
EN 918	Geotextiles and geotextile-related products : Dynamic perforation test (cone drop test)
EN 964-1	Geotextiles and geotextile-related products : Determination of thickness at specified pressures Part 1: Single layers (A-2 kPa)
EN 965	Geotextiles and geotextile-related products – Determination of mass per unit area
EN ISO 13433	Geosynthetics - Dynamic perforation test (cone drop test)
EN ISO 13438	Geotextiles and geotextile-related products - Screening test method for determining the resistance to oxidation
EPA 600/2-88/052	Lining of Waste Containment And Other Impoundment Facilities (Only for: Appendix E: Procedure for determination of the extractables content of exposed and unexposed FMLS)
EPA 9090A	Compatibility test for wastes and membrane liners
FGI 1115 and PGI 1104	PVC Geomembrane Specifications
FTMS 101C-2065	Puncture Resistance (1/8 inch radius probe method)
FTMS 101C-2065.1	Puncture Resistance (1/8 inch radius probe method)
GRI GG1	Geogrid Rib Tensile Strength
GRI GG2	Geogrid Junction Strength
GRI GM11	Accelerated Weathering of Geomembranes Using a Fluorescent UVA Device
GRI GM12	Asperity Measurement of Textured Geomembranes Using a Depth Gage
ISO 10319	Geotextiles - Wide-width tensile test (as per NF EN ISO 10319)
ISO 10321	Geotextiles - Tensile test for joints/seams by wide-width method (as per NF EN ISO 10321)
ISO 11058	Geotextiles and geotextile-related products -- Determination of water permeability characteristics normal to the plane, without load
ISO 12236	Geotextiles and geotextile-related products - Static puncture test (CBR test) (as per NF EN ISO 12236)
ISO 12956	Geotextiles and geotextile-related products - Determination of the characteristic opening size (as per NF EN ISO 12956)
ISO 12957-1	Geosynthetics - Determination of friction characteristics - Part 1 : Direct shear test
ISO 12958	Geotextiles and geotextile-related products -- Determination of water flow capacity in their plane





ISO 13433	Geosynthetics - Dynamic perforation test (cone drop test)
ISO 13438	Geotextiles and geotextile-related products - Screening test method for determining the resistance to oxidation
ISO 9863	Geotextiles -- Determination of thickness at specified pressures
ISO 9863-1	Geosynthetics-Determination of thickness at specified pressures- Part 1: Single layers
ISO 9864	Geotextiles -- Determination of mass per unit area
NF EN 14576	Geosynthetics-Test methods for determining the resistance of polymeric geosynthetic barriers to environmental stress cracking
NF EN 918	Geotextiles and geotextile-related products : Dynamic perforation test (cone drop test)
NF EN 964-1	Geotextiles and geotextile-related products : Détermination of thickness at specified pressures - Part 1: Single layers (A-2 kPa)
NF EN 965	Geotextiles and geotextile-related products - Determination of mass per unit area
NF G38-016 Disc.	Textiles - Articles à usages industriels - Essais des géotextiles - Mesure de la permittivité hydraulique
NF G38-017 Disc.	Textiles - Articles à usages industriels - Essais des géotextiles - Porométrie : détermination de l'ouverture de filtration
NF G38-018 Disc.	Textiles - Articles à usages industriels - Essais des géotextiles - mesure de la transmissivité hydraulique
NF G38-019	Textiles - Articles à usages industriels - Essais des géotextiles - Détermination de la résistance au poinçonnement
NF P84-501	Géomembranes - Dispositif d'étanchéité par géomembranes (DEG) - Détermination des caractéristiques en traction
NF P84-502-1	Géomembranes - Essais sur joints - Partie 1 : détermination des caractéristiques en traction-cisaillement
NF P84-502-2	Géomembranes - Essais sur joints - Partie 2 : détermination de la résistance en traction-pelage
NF P84-505	Géomembranes - Mesure de l'angle de frottement "géomembrane-sable normal" à la boîte de cisaillement
NF P84-507	Essais des géomembranes - Détermination de la résistance au poinçonnement statique des géomembranes et des dispositifs d'étanchéité par géomembranes - Cas du poinçon cylindrique sans support
NF P84-514	Géomembranes - Détermination de la masse surfacique

**Construction Materials : (Excluding textile products)**

(Excluding textile products)

**Floor Coverings (See also FIBRE, METAL, ELAS and WOOD Sections)**

ASTM C1378	Standard Test Method for Determination of Resistance to Staining
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ASTM D3936	Standard Test Method for Resistance to Delamination of the Secondary Backing of Pile Yarn Floor Covering
ASTM D418	Standard Methods of Testing Pile Yarn Floor Covering Construction
ASTM D5793	Standard Test Method for Binding Sites Per Unit Length or Width of Pile Yarn Floor Coverings
ASTM D5823	Standard Test Method for Tuft Height of Pile Floor Coverings
ASTM D5848	Standard Test Method for Mass Per Unit Area of Pile Yarn Floor Coverings
ASTM E661	Standard Test Method for Performance of Wood and Wood-Based Floor and Roof Sheathing Under Concentrated Static and Impact Loads - Section: Strength of Single-Layer Floor Sheathing Except for: Impact Load
ASTM F1015	Standard Test Method for Relative Abrasiveness of Synthetic Turf Playing Surfaces
ASTM F150	Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring
ASTM F1514	Standard Test Method for Measuring Heat Stability of Resilient Vinyl Flooring by Color Change
ASTM F1515	Standard Test Method for Measuring Light Stability of Resilient Vinyl Flooring by Color Change
ASTM F1914	Standard Test Methods for Short-Term Indentation and Residual Indentation of Resilient Floor Covering
ASTM F970	Standard Test Method for Measuring Recovery Properties of Floor Coverings after Static Loading
EN 12228	Surface for sports areas - Determination of joint strength of synthetic surfaces
EN 13744	Surfaces for sports areas-Procedure for accelerated ageing by immersion in hot water
NF EN 12228	Surface for sports areas - Determination of joint strength of synthetic surfaces
NF EN 13744	Surfaces for sports areas-Procedure for accelerated ageing by immersion in hot water

### **Insulating Materials**

ASTM C1258	Standard Test Method for Elevated Temperature and Humidity Resistance of Vapor Retarders for Insulation
ASTM C203	Standard Test Method for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
ASTM D3574	Standard Test Methods for Flexible Cellular Materials-Slab, Bonded, and Molded Urethane Foams(«Test B» and «Test E» only)
CAN/ULC S704	Standard for Thermal Insulation, Polyurethane and Polyisocyanurate Boards, Faced (Only for: Dimensions, Water





CAN/ULC S706.1 Vapor Permeance, Dimensional Stability, Water Absorption, Flexural Strength, Compressive and Tensile Strength  
Standard for Wood Fibre Insulating Boards for Buildings  
Except for: Air permeance, Surface burning, Thermal resistance

### **Miscellaneous Construction Materials**

ASTM C473 Standard Test Methods for Physical Testing of Gypsum Panel Products  
Only for: Nail Pull Resistance-Method B

ASTM D3330 Standard Test Method for Peel-Adhesion of Pressure-Sensitive Tape

ASTM D3359 Standard Test Methods for Rating Adhesion by Tape Test

PSTC 101 Peel Adhesion of Pressure Sensitive Tap

PSTC 107 Shear Adhesion of Pressure Sensitive Tape

PSTC 5 Quick Stick of Pressure Sensitive Tape

### **Roof Coverings**

ASTM C1185 Standard Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards (Only for: Flexural Strength, Density, Moisture Movement, Water Absorption, Water Tightness and Warm Water Resistance)

ASTM D146/D146M Standard Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing  
Except for: Appearance and Dimensions of Rolls, Strength, Pliability, Loss on Heating

ASTM D1970 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection

ASTM D3462 Standard Specification for Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules

ASTM D4073 Test Method for Tensile-Tear Strength of Bituminous Roofing Membranes

ASTM D4434 Standard Specification for Poly(Vinyl Chloride) Sheet Roofing

ASTM D4521 Coefficient of Static Friction of Corrugated and Solid Fiberboard

ASTM D4798 Standard Practice for Accelerated Weathering Test Conditions and Procedures for Bituminous Materials (Xenon-Arc Method)

ASTM D4869 Standard Specification for Asphalt-Saturated Organic Felt Underlayment Used in Steep Slope Roofing  
Except for: Bituminous Saturant

ASTM D5147 Standard Test Methods for Sampling and Testing Modified Bituminous Sheet Material



ASTM D5323	Practice for Testing Load-Strain Properties of Roofing Membranes
ASTM D5602	Standard Test Method for Static Puncture Resistance of Roofing Membrane Specimens
ASTM D5635	Standard Test Method for Dynamic Puncture Resistance of Roofing Membrane Specimens
ASTM D6162	Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements
ASTM D6163	Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements
CAN/CGSB 37.54	Roofing and Waterproofing Membrane, Sheet Applied, Flexible, Polyvinyl Chloride
CAN/CGSB 37.58	Membrane, Elastomeric, Cold-Applied Liquid, for Non-Exposed Use in Roofing and Waterproofing
CAN/CGSB 37-GP-52M	Roofing and Waterproofing Membrane, Sheet Applied, Elastomeric
CAN/CGSB 37-GP-56M	Membrane, Modified, Bituminous, Prefabricated, and Reinforced for Roofing
CSA A123.3	Asphalt Saturated Organic Roofing Felt Except for: Pliability, Resistance to liquid transmission
CSA A220.1	Installation of concrete roof tiles, (Section: Underlayment Materials)
EN 12311-1	Flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing - Determination of tensile properties
ICC-ES AC148	Acceptance Criteria For Flexible Flashing Materials
ICC-ES AC188	Acceptance Criteria For Roof Underlayments
ICC-ES AC207	Acceptance Criteria For Polypropylene Roof Underlayments
ICC-ES AC39	Acceptance Criteria For Walking Decks
ICC-ES AC48	Acceptance Criteria For Roof Underlayment for Use in Severe Climate Areas

### **Vapour Barriers, Water Proofing Membranes**

ASTM C794	Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants
ASTM C836	Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course
ASTM D2939	Standard Test Methods for Emulsified Bitumens Used as Protective Coatings, (Section: Resistance to water)
ASTM D4226	Standard Test Methods for Impact Resistance of Rigid Poly(Vinyl Chloride) (PVC) Building Products



ASTM D5385	Standard Test Method for Hydrostatic Pressure Resistance of Waterproofing Membranes
ASTM D779	Standard Test Method for Water Resistance of Paper, Paperboard, and Other Sheet Materials by the Dry Indicator Method
CAN/CGSB-37.50	Hot-applied, Rubberized Asphalt for Roofing and Waterproofing Except for: Heat Stability, Toughness and Viscosity Test
CAN/CGSB-51.33	Vapour Barrier Sheet, excluding Polyethylene, for Use in Building Construction
CAN/CGSB-51.34	Pare-vapeur en feuille de polyéthylène pour bâtiments
CAN2-51.32	Sheathing Membrane, Breather Type
ICC-ES AC243	Acceptance Criteria For Composite Foundation Drainage Systems
ICC-ES AC279	Acceptance Criteria for Vinyl-Lined Residential Swimming Pools
ICC-ES AC29	Acceptance Criteria For Cold, Liquid-Applied, Below-Grade, Exterior Dampproofing And Waterproofing Materials
ICC-ES AC38	Acceptance Criteria for Water-Resistive Barriers - Polymeric-Based Barriers
ICC-ES Evaluation Guideline EG 114	Evaluation Guideline for rigid polyethylene, below grade, dampproofing and wall waterproofing material.

### **Other**

#### **(Geosynthetics)**

See also tests listed in section ELASTOMERS AND PROTECTIVE AND COATINGS, sub-section Plastics, Resins & Rubbers and section TEXTILES & FIBROUS MATERIALS

## **ELASTOMERS AND PROTECTIVE AND OTHER COATINGS**

### **(Composites)**

ASTM C297	Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions
ASTM C365	Standard Test Method for Flatwise Compressive Properties of Sandwich Cores
ASTM C393	Standard Test Method for Core Shear Properties of Sandwich Constructions by Beam Flexure
ASTM D1781	Standard Test Method for Climbing Drum Peel for Adhesives
ASTM D3171	Standard Test Methods for Constituent Content of Composite Materials (sauf pour: procédure H)
ASTM D3518	Standard Test Method for In-Plane Shear Response of Polymer Matrix Composite Materials by Tensile Test of a $\pm 45^\circ$ Laminate
ASTM D4541	Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers



ASTM D5083	Standard Test Method for Tensile Properties of Reinforced Thermosetting Plastics Using Straight-Sided Specimens
ASTM D5961	Standard Test Method for Bearing Response of Polymer Matrix Composite Laminates
ASTM D7028	Standard Test Method for Glass Transition Temperature (DMA T <sub>g</sub> ) of Polymer Matrix Composites by Dynamic Mechanical Analysis (DMA)
ASTM D7078/D7078M	Standard Test Method for Shear Properties of Composite Materials by V-Notched Rail Shear Method
ASTM D7136/D7136M	Standard Test Method for Measuring the Damage Resistance of a Fiber-Reinforced Polymer Matrix Composite to a Drop-Weight Impact Event
ASTM D7264/D7264M	Standard Test Method for Flexural Properties of Polymer Matrix Composite Materials
ASTM D7332	Standard Test Method for Measuring the Fastener Pull-Through Resistance of a Fiber-Reinforced Polymer Matrix Composite (Proc. B)

**Plastics; Resins and Rubbers:**

**Plastics**

ASTM D1002	Standard Test Method for Apparent Shear Strength of Single-Lap-Joint Adhesively Bonded Metal Specimens by Tension Loading (Metal-to-Metal)
ASTM D1003	Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics
ASTM D1004	Standard Test Method for Initial Tear Resistance of Plastic Film and Sheeting
ASTM D1042	Standard Test Method for Linear Dimensional Changes of Plastics Under Accelerated Service Conditions
ASTM D1044	Standard Test Method for Resistance of Transparent Plastics to Surface Abrasion
ASTM D1204	Standard Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheeting or Film at Elevated Temperature
ASTM D1238	Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer
ASTM D1239	Standard Test Method for Resistance of Plastic Films to Extraction by Chemicals
ASTM D1603	Standard Test Method for Carbon Black In Olefin Plastics
ASTM D1621	Standard Test Method for Compressive Properties Of Rigid Cellular Plastics
ASTM D1623	Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics



ASTM D1693	Standard Test Method for Environmental Stress-Cracking of Ethylene Plastics
ASTM D1709	Standard Test Methods for Impact Resistance of Plastic Film by the Free-Falling Dart Method
ASTM D1784	Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds
ASTM D1790	Standard Test Method for Brittleness Temperature of Plastic Sheeting by Impact
ASTM D1894	Standard Test Method for Static and Kinetic Coefficients of Friction of Film and Sheeting
ASTM D1922	Standard Test Method for Propagation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method
ASTM D1928	Practice for Preparation of Compression-Molded Polyethylene Test Sheets and Test Specimens
ASTM D1938	Standard Test Method for Tear-Propagation Resistance of Plastic Film and Thin Sheeting by a Single-Tear Method
ASTM D2103	Standard Specification for Polyethylene Film and Sheeting
ASTM D2124	Standard Test Method for Analysis of Components in Poly(Vinyl Chloride) Compounds Using an Infrared Spectrophotometric Technique
ASTM D2126	Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging
ASTM D2241	Standard Specification for Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series) Only for: Flattening
ASTM D2290	Standard Test Method for Apparent Hoop Tensile Strength of Plastic or Reinforced Plastic Pipe by Split Disk Method (Only for: Procedure B)
ASTM D2344	Standard Test Method for Short-Beam Strength of Polymer Matrix Composite Materials and Their Laminates
ASTM D2412	Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading
ASTM D256	Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics
ASTM D2565	Standard Practice for Xenon-Arc Exposure of Plastics Intended for Outdoor Applications
ASTM D2582	Standard Test Method for Puncture-Propagation Tear Resistance of Plastic Film and Thin Sheeting
ASTM D2584	Standard Test Method for Ignition Loss of Cured Reinforced Resins
ASTM D2842	Standard Test Method for Water Absorption of Rigid Cellular Plastics
ASTM D3015	Standard Practice for Microscopical Examination of Pigment Dispersion in Plastic Compounds



ASTM D3039	Standard Test Method for Tensile Properties of Polymer Matrix Composite Materials
ASTM D3045	Standard Practice for Heat Aging of Plastics Without Load
ASTM D3350	Standard Specification for Polyethylene Plastics Pipe and Fittings Materials
	Except for: ASTM D1505, D2837, F1473, F2263, ISO 12162
ASTM D3417	Standard Test Method for Enthalpies of Fusion and Crystallization of Polymers by Differential Scanning Calorimetry (DSC)
ASTM D3418	Standard Test Method for Transition Temperatures of Polymers by Differential Scanning Calorimetry
ASTM D3575	Standard Test Methods for Flexible Cellular Materials Made From Olefin Polymers Except for: Suffix: M, R2, V, CC
ASTM D374	Standard Test Methods for Thickness of Solid Electrical Insulation
ASTM D3763	Standard Test Method for High Speed Puncture Properties of Plastics Using Load and Displacement Sensors
ASTM D3846	Standard Test Method for In-Plane Shear Strength of Reinforced Plastics
ASTM D3895	Standard Test Method for Oxidative Induction Time of Polyolefins by Differential Scanning Calorimetry
ASTM D3985	Standard Test Method for Oxygen Gas Transmission Rate Through Plastic Film and Sheeting Using a Coulometric Sensor
ASTM D4020	Standard Specification for Ultra-High-Molecular-Weight Polyethylene Molding and Extrusion Materials Only for: Impact Test
ASTM D4329	Standard Practice for Fluorescent UV Exposure of Plastics
ASTM D4459	Standard Practice for Xenon-Arc Exposure of Plastics Intended for Indoor Applications
ASTM D4703	Standard Practice for Compression Molding Thermoplastic Materials into Test Specimens, Plaques, or Sheets
ASTM D5208	Standard Practice for Fluorescent Ultraviolet (UV) Exposure of Photodegradable Plastics
ASTM D543	Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents
ASTM D5630	Standard Test Method for Ash Content in Plastics
ASTM D570	Standard Test Method for Water Absorption of Plastics
ASTM D5748	Standard Test Method for Protrusion Puncture Resistance of Stretch Wrap Film
ASTM D5868	Standard Test Method for Lap Shear Adhesion for Fiber Reinforced Plastic (FRP) Bonding
ASTM D5947	Standard Test Methods for Physical Dimensions of Solid Plastics Specimens
ASTM D635	Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position





ASTM D638	Standard Test Method for Tensile Properties of Plastics
ASTM D6641	Compressive Properties of Polymer Matrix Composite Materials Using a Combined Loading Compression (CLC) Test Fixture
ASTM D695	Standard Test Method for Compressive Properties of Rigid Plastics
ASTM D6988	Standard Guide for Determination of Thickness of Plastic Film Test Specimens
ASTM D7249	Standard Test Method for Facing Properties of Sandwich Constructions by Long Beam Flexure
ASTM D746	Standard Test Method for Brittleness Temperature of Plastics and Elastomers by Impact
ASTM D751	Standard Test Methods for Coated Fabrics

Only for:

	(Dimensions and Mass, Breaking, Bursting, Puncture, Tearing, Trapezoidal, Hydrostatic Resis. (A-1), Adhesion, Strength of coating, Low Temp. Bend test, Seam Strength, Acc. Heat Aging)
ASTM D790	Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
ASTM D792	Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement
ASTM D828	Tensile Properties of Paper and Paperboard Using Constant-Rate-of-Elongation Apparatus
ASTM D882	Standard Test Method for Tensile Properties of Thin Plastic Sheeting
ASTM E1131	Standard Test Method for Compositional Analysis by Thermogravimetry
ASTM E1252	Standard Practice for General Techniques for Obtaining Infrared Spectra for Qualitative Analysis
ASTM E1269	Standard Test Method for Determining Specific Heat Capacity by Differential Scanning Calorimetry
ASTM E1356	Standard Test Method for Assignment of the Glass Transition Temperatures by Differential Scanning Calorimetry or Differential Thermal Analysis
ASTM E2550	Standard Test Method for Thermal Stability by Thermogravimetry
ASTM E2602	Standard Test Methods for the Assignment of the Glass Transition Temperature by Modulated Temperature Differential Scanning Calorimetry
ASTM E308	Standard Practice for Computing the Colors of Objects by Using the CIE System
ASTM E424	Standard Test Methods for Solar Energy Transmittance and Reflectance (Terrestrial) of Sheet Materials
ASTM E793	Standard Test Method for Enthalpies of Fusion and Crystallization by Differential Scanning Calorimetry



ASTM E794	Standard Test Method for Melting and Crystallization Temperatures by Thermal Analysis
ASTM E831	Standard Test Method for Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis
ASTM E96	Standard Test Methods for Water Vapor Transmission of Materials
ASTM F1249	Standard Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor
ASTM F2136	Standard Test Method for Notched, Constant Ligament-Stress (NCLS) Test to Determine Slow-Crack-Growth Resistance of HDPE Resins or HDPE Corrugated Pipe
ASTM F88	Standard Test Method for Seal Strength of Flexible Barrier Materials
ASTM F904	Standard Test Method for Comparison of Bond Strength or Ply Adhesion of Similar Laminates Made from Flexible Materials
ASTM G153	Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials
ASTM G154	Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials
ASTM G155	Standard Practice for Operating Xenon-Arc Light Apparatus for Exposure of Non-Metallic Materials
ASTM G160	Standard Practice for Evaluating Microbial Susceptibility of Nonmetallic Materials by Laboratory Soil Burial
ASTM G26	Practice for Operating Light-Exposure Apparatus (Xenon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials
ASTM G53	Standard Practice for Operating Light- and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials (Discontinu� en 2000, replace par G154)
ISO 1133	Melt Flow Index
ISO 1133-1	Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method
ISO 11357-6	Plastics-Differential scanning calorimetry (DSC)-Part 6: Determination of oxidation induction time (isothermal OIT) and oxidation induction temperature (dynamic OIT)
ISO 1183	Density
ISO 1183-1	Plastiques-M�thodes de d�termination de la masse volumique des plastiques non alv�olaires-Partie 1: M�thode par immersion, m�thode du pycnom�tre en milieu liquide et m�thode par titrage
ISO 13953	Tubes et raccords en poly�thyl�ne (PE)-D�termination de la r�sistance en traction et du mode de rupture d'�prouvettes pr�lev�es dans des assemblages par soudage bout � bout
ISO 1421	Rubber-or plastics-coated fabrics-Determination of tensile strength and elongation at break



ISO 178	Plastics-Determination of flexural properties
ISO 18553	Method for assessment of the degree of pigment or carbon black dispersion in polyolefin pipes, fittings and compounds
ISO 1923	Cellular plastics and rubbers - Determination of linear dimension
ISO 293	Plastiques-Moulage par compression des éprouvettes en matières thermoplastiques
ISO 4675	Rubber- or plastics-coated fabrics – Low temperature bend test
ISO 4892-2	Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc Lamps
ISO 527-1	Plastics - Determination of tensile properties -- Part 1: General principles
ISO 527-3	Plastics - Determination of tensile properties - Part 3: Test conditions for films and sheets
ISO 6964	Polyolefin pipes and fittings-Determination of carbon black content by calcination and pyrolysis-Test method and basic specification
ISO 75-2	Plastics-Determination of temperature of deflection under load- Part 2: Plastics and ebonite
ISO 7854	Rubber- or plastics-coated fabrics – Determination of resistance to damage by flexing Except for: Method A and C
UL 94	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances - Horizontal Burning Test; HB
VOLVO STD 1024,2511	Determination of flexural properties
VOLVO STD 1026,1121	Test Method, Dimensional changes, Plastics

### **Resins and Rubbers**

ASTM D1876	Standard Test Method for Peel Resistance of Adhesives (T-Peel Test)
ASTM D2240	Standard Test Method for Rubber Property-Durometer Hardness (for durometer of type A, Type D)
ASTM D297 (Density)	Standard Test Methods for Rubber Products-Chemical Analysis - Density
ASTM D3677	Standard Test Methods for Rubber-Identification by Infrared Spectrophotometry
ASTM D3767	Standard Practice for Rubber-Measurement of Dimensions
ASTM D395	Standard Test Methods for Rubber Property-Compression Set
ASTM D4060	Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser
ASTM D412	Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension
ASTM D413	Standard Test Method for Rubber Property-Adhesion to Flexible Substrate (Machine Method, Strip Type A)



ASTM D4549	Standard Specification for Polystyrene and Rubber-Modified Polystyrene Molding and Extrusion Materials (PS)
ASTM D4587	Standard Practice for Fluorescent UV-Condensation Exposures of Paint and Related Coatings
ASTM D4591	Standard Test Method for Determining Temperatures and Heats of Transitions of Fluoropolymers by Differential Scanning Calorimetry
ASTM D5028	Standard Test Method for Curing Properties of Pultrusion Resins by Thermal Analysis
ASTM D522	Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings Only for: Test Method B
ASTM D523	Standard Test Method for Specular Gloss
ASTM D5644	Standard Test Methods for Rubber Compounding Materials Determination of Particle Size Distribution of Recycled Vulcanizate Particulate Rubber Only for: Method A: The Ro-tap Method
ASTM D573	Standard Test Method for Rubber Deterioration in an Air Oven
ASTM D575	Standard Test Methods for Rubber Properties in Compression
ASTM D624	Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers
ASTM D6862	Standard Test Method for 90 Degree Peel Resistance of Adhesives
ASTM D814	Standard Test Method for Rubber Property—Vapor Transmission of Volatile Liquids
ASTM D816	Standard Test Methods for Rubber Cements Only for: Articles 1-8, 13, 15
ASTM D903	Standard Test Method for Peel or Stripping Strength of Adhesive Bonds
ISO 188	Rubber, vulcanized or thermoplastic - Accelerated ageing and heat resistance tests
ISO 37	Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties
ISO 4648	Rubber, vulcanized or thermoplastic - Determination of dimensions of test pieces and products for test purposes

## **ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY**

### **Occupational Health and Safety:**

#### **Fire Protection**

See tests listed in section "TEXTILES & FIBROUS MATERIALS"



**MARKETPLACE PRODUCTS-CONSUMER AND BUSINESS**

**Furniture and Consumer Articles:**

**Hazardous Products**

ASTM E1613	Standard Test Method for Determination of Lead by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES), Flame Atomic Absorption Spectrometry (FAAS), or Graphite Furnace Atomic Absorption Spectrometry (GFAAS) Techniques (As requested by «16 CFR Part 1303»)
AOAC Official Method 974.02	"Lead in Paint - Atomic Absorption Spectrophotometric Method" ("Band of Lead-Containing Paint and Certain Consumer Products Bearing Lead-Containing Paint") (As requested by «16 CFR Part 1303»)
ASTM E1645	Standard Practice for Preparation of Dried Paint Samples by Hotplate or Microwave Digestion for Subsequent Lead Analysis (As requested by «16 CFR Part 1303»)
CPSC-CH-C1001-09.3	Standard Operating Procedure for Determination of Phthalates
CPSC-CH-C1001-09.4	Standard Operating Procedure for Determination of Phthalates
CPSC-CH-E1001-08	Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)
CPSC-CH-E1001-08.1	Standard Operating Procedure for Determining Total Lead (Pb) in Metal Children's Products (including Children's Metal Jewelry)
CPSC-CH-E1001-08.2	Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)
CPSC-CH-E1001-08.3	Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)
CPSC-CH-E1002-08	Standard Operating Procedure for Determining Total Lead (Pb) in Non-metal Children's Products
CPSC-CH-E1002-08.1	Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products
CPSC-CH-E1002-08.2	Standard Operating Procedure for Determining Total Lead (Pb) in Nonmetal Children's Products
CPSC-CH-E1002-08.3	Standard Operating Procedure for Determining Total Lead (Pb) in Nonmetal Children's Products
CPSC-CH-E1003-09	Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings
CPSC-CH-E1003-09.1	Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings
Health Canada - Part B: C-02	Determination of Total Lead in Paints and Applied Coatings



## **NON METALLIC MINERALS AND PRODUCTS**

### **Ceramics; Clay and Clay Products:**

#### **Ceramics**

ASTM C1028	Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method
ASTM C627	Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester

## **TEXTILES AND FIBROUS MATERIALS**

### **Apparel and Other Finished Textile Products:**

#### **(Others (fire and flammability))**

16 CFR Part 1610	Standard for the flammability of clothing textiles
16 CFR Part 1615	Standard for the flammability of children's sleepwear: Sizes 0 through 6X (FF-3-71)
16 CFR Part 1616	Standard for the flammability of children's sleepwear: Sizes 7 through 14 (FF 5-74)
49 CFR Part 571.302	Standard No. 302; Flammability of interior materials (FMVSS 302)
ASTM C1166	Standard Test Method for Flame Propagation of Dense and Cellular Elastomeric Gaskets and Accessories.
ASTM D2859	Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials
ASTM D6413	Standard Test Method for Flame Resistance of Textiles (Vertical Test)
ASTM E1354	Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter.
ASTM E162	Standard Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source.
ASTM E648	Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
ASTM E662	Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
ASTM F1506	Standard Performance Specification for Flame Resistant and Arc Rated Textile Materials for Wearing Apparel for Use of Electrical Workers Exposed to Momentary Electric Arc and Related Thermal Hazards





	Except for: Article: 7.8 Arc Rating Article: 7.6.2 Flammability after Dry Cleaning (les # d'articles proviennent de l'édition 2017a)
ASTM F1891	Standard Specification for Arc and Flame Resistant Rainwear Only for: Cleaning, Weight, Leak resistance fabric and seam, Trapezoidal Tearing resistance, Flame resistance , Stiffness
ASTM F1930	Evaluation of Flame Resistant Clothing for Protection Against Fire Simulations Using an Instrumented Manikin
ASTM F2700	Standard Test Method for Unsteady-State Heat Transfer Evaluation of Flame Resistant Materials for Clothing with Continuous Heating <sup>1</sup>
Boeing BSS 7239	Test Method for Toxic Gaz Generation by Materials Combustion
Bombardier SMP 800-C	Toxic Gaz Generation
California Technical Bulletin 117	Requirements, Test Procedure and Apparatus for Testing the Flame Retardance of Resilient Filling Materials Used in Upholstered Furniture
CAN/CGSB 4.2 No. 78.1	Thermal Protective Performance of Material for Clothing
CAN/ULC S109	Flame Tests of Flame Resistant Fabrics and Films
CAN/ULC S668	Standard for Liners Used for Secondary Containment of Aboveground Flammable and Combustible Liquid Tanks
CPAI-84	Specification for Flame-Resistant Materials in Camping Tentage
DOT/FAA/AR-00/12 – Aircraft Materials Fire Test Handbook	Chapter 1 : Vertical Bunsen Burner Test for Cabin and Cargo Compartment Materials. Chapter 2 : 45-Degree Bunsen Burner Test for Cargo Compartment Liners and Waste Stowage Compartment Materials. Chapter 3 : Horizontal Bunsen Burner Test for Cabin, Cargo Compartment, and Miscellaneous Materials. Chapter 4 : 60-Degree Bunsen Burner Test for Electric Wire. Chapter 5 : Heat Release Rate Test for Cabin Materials. Chapter 6 :The Smoke Test for Cabin Materials.
FAR 25.853 (a) Appendix F – Part I –	Paragraph 4 :Vertical Test Paragraph 5 : Horizontal Test Paragraph 6 : Forty-Five Degree Test Paragraph 7 : Sixty Degree Test
FAR 25.853 (d) Appendix F Part IV –	Test Method to Determine the Heat Release Rate from Cabin Materials Exposed to Radiant Heat.
FTMS 191A No 5903.1	Flame resistance of cloth; vertical
ISO 13506-1	Protective clothing against heat and flame - Part 1: Test method for complete garments -Measurement of transferred energy using an instrumented manikin
ISO 13506-2	Protective clothing against heat and flame - Part 2: Skin burn injury prediction - Calculation requirements and test cases



ISO 15025	Protective clothing - Protection against heat and flame - Method of test for limited flame spread
ISO 15025	Protective clothing - Protection against heat and flame - Method of test for limited flame spread
NFPA 253	Standard Method of Test for Critical Radiant Flux for Floor Covering Systems Using a Radiant Heat Energy Source.
NFPA 701	Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

### Clothing

16 CFR Part 1500.53	Test methods for simulating use and abuse of toys and other articles intended for use by children over 36 but not over 96 months of age - Torque Test
ANSI/ISEA 107	High Visibility Safety Apparel and Accessories
ASTM B117	Standard Practice for Operating Salt Spray (Fog) Apparatus
ASTM D2810	Standard Test Method for pH of Leather
ASTM D4108	Test Method for Thermal Protective Performance of Materials for Clothing by Open-Flame Method
ASTM E1164	Standard Practice for Obtaining Spectrometric Data for Object-Color Evaluation
ASTM E809	Standard Practice for Measuring Photometric Characteristics of Retroreflectors
ASTM E810	Standard Test Method for Coefficient of Retroreflection of Retroreflective Sheeting Utilizing the Coplanar Geometry <sup>1</sup>
ASTM F2992 / F2992M	Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing with Tomodynamometer (TDM-100) Test Equipment
ASTM F903	Standard Test Method for Resistance of Materials Use in Protective Clothing to Penetration by Liquids
CAN/CGSB 155.1	Firefighters' Protective Clothing for Protection against Heat and Flame Except for: Water absorption
CAN/CGSB 155.20	Protective Clothing - Workwear for Protection Against Hydrocarbon Flash Fire
CAN/CGSB 155.22	Fireline Workwear for Forest Firefighters Except for: microscope polarisant
CAN/CGSB 4.2 No. 27.5	Flame Resistance - 45° Angle Test - One Second Flame Impingement
CSA Z96	High Visibility Safety Apparel
EN 388	Gants de protection contre les risques mécaniques
EN 471	High Visibility Warning Clothing
ISO 17492	Clothing for protection against heat and flame - Determination of heat transmission on exposure to both flame and radiant heat



ISO 20471	Vêtements à haute visibilité -- Méthodes d'essai et exigences (seulement pour : Détermination de la couleur)
ISO 3759	Textiles-Préparation, marquage et mesurage des éprouvettes d'étoffe et des vêtements dans les essais de détermination de la variation des dimensions
NFPA 1971	Standard on Protective Clothing for Structural Fire Fighting Only for: Articles: 8.2 Flame resistance test 1 and test four (8.5), 8.6 Heat and thermal shrinkage, 8.10 Thermal protective performance, 8.11 Thread Melting, 8.12 Tear, 8.13 Burst Strength, 8.14 Seam Breaking Strength, 8.21 Cut, 8.24 Cleaning shrinkage, 8.25 Water absorption, 8.26 Water penetration, 8.27 Liquid penetration, 8.29 Corrosion resistance test, 8.33 Total Heat Loss (THL), 8.41 Label durability and legality test 1, 8.45 Retroreflectivity and fluorescence test, 8.50 Breaking strength, 8.57 Resistance to High temperature blocking test (les # d'articles proviennent de l'édition 2018)
NFPA 1977	Standard on Protective Clothing and Equipment for Wildland Fire Fighting Only for: Articles: 8.6 Tear resistance, 8.7 Cleaning Shrinkage, 8.8 Seam Breaking Strength, 8.9 Thread Heat Resistance, 8.16 Retroreflectivity, 8.31 Label Durability and Legibility One(Article numbers are from 2016 edition)
NFPA 2112	Standard on Flame-Resistant Garments for Protection of Industrial Personnel against Flash Fire Only for: Articles: 8.2 HTP (except 8.1.3), 8.3 Flame Resistance Test, 8.4 Heat and Thermal Shrinkage Resistance Test, 8.5 Manikin Test, 8.6 Thread Heat Resistance). (Article numbers are from 2018 edition)

### **Floor Coverings**

16 CFR Part 1630	Standard for the surface flammability of carpets and rugs (FF1-70)
ASTM D1335	Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings
CAN/CGSB 4.129	Carpet for Commercial Use
CAN/CGSB 4.2 No. 27.6	Flame Resistance - Methenamine Tablet Test for Textile Floor Coverings
CAN/CGSB 4.2 No. 77.1/ISO 4919	Carpets - Determination of Tuft Withdrawal Force

### **Mattresses**

CAN/CGSB 4.2 No.27.7	Combustion Resistance of Mattresses - Cigarette Test
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### **Tents**

Refer to minor-heading: Window Coverings.



## **Textile Mill Products: (Including synthetic and natural fibres)**

### **Aircraft Materials**

FAR 25.853(a) Vertical and Horizontal Bunsen Burner Test for Cabin and Cargo Compartment Materials

### **Fabrics**

AATCC 106	Colorfastness to Water: Sea (as per CAN/CGSB 4.2 No.21)
AATCC 107	Colorfastness to Water (as per CAN/CGSB 4.2 No.20)
AATCC 112	Formaldehyde Release from Fabric, Determination of: Sealed Jar Method
AATCC 116	Colorfastness to Crocking: Rotary Vertical Crockmeter Method
AATCC 117	Colorfastness to Heat: Dry (Excluding: Pressing)
AATCC 118	Oil Repellency: Hydrocarbon Resistance Test
AATCC 127	Water Resistance: Hydrostatic Pressure Test
AATCC 132	Colorfastness to Drycleaning (as per CAN/CGSB 4.2 No. 29.1)
AATCC 133	Colorfastness to Heat: Hot Pressing
AATCC 135	Dimensional Changes in Automatic Home Laundering of Woven or Knit Fabrics
AATCC 15	Colorfastness to Perspiration (as per CAN/CGSB 4.2 No. 23)
AATCC 16	Colorfastness to Light
AATCC 16.3	Colorfastness to Light: Xénon Arc
AATCC 162	Colorfastness to Water: Chlorinated Pool
AATCC 169	Weather Resistance of Textiles: Xenon Lamp Exposure
AATCC 183	Transmittance or Blocking of Erythemally Weighted Ultraviolet Radiation through Fabrics
AATCC 195	Liquid Moisture Management Properties of Textile Fabrics
AATCC 22	Water Repellency: Spray Test
AATCC 35	Water Resistance: Rain Test
AATCC 61	Colorfastness to Laundering Home and Commercial: Accelerated (as per CAN/CGSB 4.2 No. 19.1)
AATCC 76	Electrical Surface Resistivity of Fabrics
AATCC 79	Absorbency of Textiles
AATCC 8	Colorfastness to Crocking: AATCC Crockmeter Method (as per CAN/CGSB 4.2 No. 22)
AATCC 81	pH of the Water-Extract from Wet Processed Textiles
AATCC 88C	Retention of Creases in Fabrics after Repeated Home Laundering



AATCC 96	Dimensional Changes in Commercial Laundering of Woven and Knitted Fabrics Except Wool
ASTM D1117 Sect.21	Standard Guide for Evaluating Nonwoven Fabrics - Absorbency
ASTM D1388	Standard Test Methods for Stiffness of Fabrics
ASTM D1424	Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum Type (Elmendorf) Apparatus
ASTM D1682	Standard Methods of Test for Breaking Load and Elongation of Textile Fabrics
ASTM D1683	Test Method for Failure in Sewn Seams of Woven Fabrics(Discontinued 1999) (as per CAN/CGSB 4.2 No. 32.2)
ASTM D1776	Standard Practice for Conditioning and Testing Textiles
ASTM D1777	Standard Test Method for Thickness of Textile Materials
ASTM D2136	Standard Test Method for Coated Fabrics - Low-Temperature Bend Test
ASTM D2261	Standard Test Method for Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant-Rate-of-Extension Tensile Testing Machine)
ASTM D2594	Standard Test Method for Stretch Properties of Knitted Fabrics Having Low Power
ASTM D3393	Standard Specification for Coated Fabrics Only for: Waterproofness
ASTM D3512	Standard Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Random Tumble Pilling Tester
ASTM D3775	Standard Test Method for Warp (End) and Filling (Pick) Count of Woven Fabrics
ASTM D3776	Standard Test Methods for Mass Per Unit Area (Weight) of Fabric
ASTM D3786	Standard Test Methods for Hydraulic Bursting Strength of Textile Fabrics-Diaphragm Bursting Strength Tester Method
ASTM D3884	Standard Guide for Abrasion Resistance of Textile Fabrics (Rotary Platform, Double-Head Method)
ASTM D3885	Standard Test Method for Abrasion Resistance of Textile Fabrics (Flexing and Abrasion Method)
ASTM D3886	Standard Test Method for Abrasion Resistance of Textile Fabrics (Inflated Diaphragm Method)
ASTM D3887	Standard Specification for Tolerances for Knitted Fabrics (Mass, Fabric count, Bursting strength)
ASTM D3939	Standard Test Method for Snagging Resistance of Fabrics (Mace)
ASTM D3940	Test Method for Bursting Strength (Load) and Elongation of Sewn Seams of Knit or Woven Stretch Textile Fabrics
ASTM D4157	Standard Test Method for Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder Method)
ASTM D434	Standard Test Method for Resistance to Slippage of Yarns in Woven Fabrics Using a Standard Seam



ASTM D4964	Standard Test Method for Tension and Elongation of Elastic Fabrics (Constant-Rate-of-Extension Type Tensile Testing Machine)
ASTM D4966	Standard Test Method for Abrasion Resistance of Textile Fabrics (Martindale Abrasion Tester Method) <sup>1</sup>
ASTM D4970	Standard Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Martindale Tester
ASTM D5034	Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)
ASTM D5035	Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Strip Method)
ASTM D5587	Standard Test Method for Tearing Strength of Fabrics by Trapezoid Procedure
ASTM D5732	Standard Test Method for Stiffness of Nonwoven Fabrics Using the Cantilever Test
ASTM D6797	Standard Test Method for Bursting Strength of Fabrics Constant-Rate-of-Extension (CRE) Ball Burst Test
ASTM D737	Standard Test Method for Air Permeability of Textile Fabrics
ASTM F1342	Standard Test Method for Protective Clothing Material Resistance to Puncture
ASTM F1670	Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Synthetic Blood
ASTM F1868	Standard Test Method for Thermal and Evaporative Resistance of Clothing Materials Using a Sweating Hot Plate
BS EN 29073-3	Methods of tests for nonwovens-Part 3: Determination of tensile strength and elongation
CAN/CGSB 4.2 No. 11.1	Bursting Strength - Diaphragm Pressure Test (as per ASTM D3786)
CAN/CGSB 4.2 No. 11.2	Bursting Strength – Ball Burst Test
CAN/CGSB 4.2 No. 12.1	Tearing Strength - Single-Rip Method (as per ASTM D2262)
CAN/CGSB 4.2 No. 12.2	Tearing Strength - Trapezoid Method
CAN/CGSB 4.2 No. 12.3	Tearing Strength - Elmendorf Ballistic Method (as per ASTM D1424)
CAN/CGSB 4.2 No. 15	Non-Fibrous Material on Textiles
CAN/CGSB 4.2 No. 18.3/ISO 105-B02	Textiles - Tests for Colourfastness - Part B02 : Colourfastness to Artificial Light: Xenon Arc Fading Lamp Test
CAN/CGSB 4.2 No. 19.1	Colourfastness to Washing - Accelerated test - Launder-Ometer (as per AATCC 61)
CAN/CGSB 4.2 No. 2	Conditioning Textile Materials for Testing
CAN/CGSB 4.2 No. 20	Colourfastness to Water (as per AATCC 107)
CAN/CGSB 4.2 No. 21	Colourfastness to Sea Water (as per AATCC 106)
CAN/CGSB 4.2 No. 22	Colourfastness to Rubbing (Crocking) (as per AATCC 8)
CAN/CGSB 4.2 No. 23	Colourfastness to perspiration (as per AATCC 15)





CAN/CGSB 4.2 No. 24	Colourfastness and Dimensional Change in Commercial Laundering (supersedes CGSB-4.2 N°24.2)
CAN/CGSB 4.2 No. 25.1	Dimensional change in Wetting
CAN/CGSB 4.2 No. 26.2	Textile Fabrics - Determination of Resistance to Surface Wetting (Spray Test) (as per AATCC 22)
CAN/CGSB 4.2 No. 26.3/ISO 811	Textile Fabrics - Determination of Resistance to Water Penetration - Hydrostatic Pressure Test
CAN/CGSB 4.2 No. 26.5	Water Resistance - High Pressure Penetration Test
CAN/CGSB 4.2 No. 27.1	Flame Resistance - Vertical Burning Test
CAN/CGSB 4.2 No. 27.10	Flame Resistance - Vertically Oriented Textile Fabric or Fabric Assembly Test
CAN/CGSB 4.2 No. 29.1	Colourfastness to Dry Cleaning Solvent (as per AATCC 132)
CAN/CGSB 4.2 No. 30	Dimensional Change in Dry-Cleaning (as per AATCC 158)
CAN/CGSB 4.2 No. 32.1	Resistance of Woven Fabrics to Seam Slippage
CAN/CGSB 4.2 No. 32.2	Breaking Strength of Seams in Woven Fabrics (as per ASTM D1683)
CAN/CGSB 4.2 No. 36	Air Permeability (as per ASTM D737)
CAN/CGSB 4.2 No. 37	Fabric Thickness
CAN/CGSB 4.2 No. 4.1/ISO 22198	Measurement of Width of Pieces
CAN/CGSB 4.2 No. 45	Textiles Fabrics - Determination of the Recovery from Creasing of a Horizontally Folded Specimen by Measuring the Angle-of-Recovery
CAN/CGSB 4.2 No. 49	Resistance of Materials to Water Vapour Diffusion
CAN/CGSB 4.2 No. 5.1	Unit Mass of Fabrics
CAN/CGSB 4.2 No. 51.2	Resistance to Pilling - Random Tumble Pilling Tester (as per ASTM D3512)
CAN/CGSB 4.2 No. 58	Colourfastness and Dimensional Change in Domestic Laundering of Textiles
CAN/CGSB 4.2 No. 6/ISO 7211/2	Textiles - Woven Fabrics - Construction - Methods of Analysis - Part 2: Determination of Number of Threads per Unit Length
CAN/CGSB 4.2 No. 60	Textiles - Résistance aux accrocs - Essai à la masse
CAN/CGSB 4.2 No. 69	Weather Resistance - Xenon Arc Radiation
CAN/CGSB 4.2 No. 7	Knitted Fabric Count - Wales and Courses per Centimetre
CAN/CGSB 4.2 No. 74/ISO 3071	Textiles - Determination of pH of the Aqueous Extract
CAN/CGSB 4.2 No. 9.1	Breaking Strength of Fabrics - Strip Method - Constant-Time-to-Break Principle (as per ASTM D5035)
CAN/CGSB 4.2 No. 9.2	Breaking Strength of Fabrics - Grab Method - Constant-Time-to-Break Principle (as per ASTM D5034)
CAN/CGSB-4.2 No. 51.1	Resistance to Pilling, Rotating Box Method
CAN/CGSB-4.2 No. 57	Determination of Maximum Safe Ironing Temperature
EN 29073-3	Textiles-Test methods for nonwovens-Part 3: Determination of tensile strength and elongation



EN ISO 13934-1	Textiles-Tensile properties of fabrics-Part 1: Determination of maximum force and elongation at maximum force using the strip method
FTMS 191A No 4108	Strength and elongation, breaking; textile webbing, tape and braided items
FTMS 191A No 5512	Water resistance of coated cloth: High Range, Hydrostatic Pressure Method
FTMS 191A No 5516	Water resistance of cloth: Water Permeability, Hydrostatic Pressure Method
FTMS 191A Section No 4	Textiles Conditioning
ISO 105-B02	Textiles-Tests for colour fastness-Part B02: Colour fastness to artificial light: Xenon arc fading lamp test
ISO 105-C06	Textiles -- Tests for colour fastness -- Part C06: Colour fastness to domestic and commercial laundering
ISO 105-D01	Textiles-Tests for colour fastness-Part D01: Colour fastness to drycleaning using perchloroethylene solvent
ISO 105-X12	Textiles-Tests for colour fastness-Part X12: Colour fastness to rubbing
ISO 11092	Textiles-Physiological effects-Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded-hotplate test)
ISO 12947-2	Textiles -- Determination of the abrasion resistance of fabrics by the Martindale method -- Part 2: Determination of specimen breakdown
ISO 13934-1	Textiles-Tensile properties of fabrics-Part 1: Determination of maximum force and elongation at maximum force using the strip method
ISO 13935-2	Textiles - Seam tensile properties of fabrics and made-up textile articles -Part 2: Determination of maximum force to seam rupture using the grab method
ISO 13937-1	Textiles -- Tear properties of fabrics -- Part 1: Determination of tear force using ballistic pendulum method (Elmendorf)
ISO 13937-2	Textiles - Tear properties of fabrics - Part 2: Determination of tear force of trouser-shaped test specimens (Single tear method)
ISO 13938-1	Textiles - Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension
ISO 13997	Protective clothing-Mechanical properties-Determination of resistance to cutting by sharp objects
ISO 17493	Clothing and equipment for protection against heat -- Test method for convective heat resistance using a hot air circulating oven
ISO 4920	Textiles -- Determination of resistance to surface wetting (spray test) of fabrics
ISO 5081	Textiles -- Woven fabrics -- Determination of breaking strength and elongation (Strip method)



ISO 6330	Textiles-Domestic washing and drying procedures for textile testing Except for: washing machine reference type C – pulsator type
ISO 7198	Cardiovascular implants-Tubular vascular prostheses (Determination of water permeability)
ISO 811	Textile fabrics-Determination of resistance to water penetration- Hydrostatic pressure test
ISO 9073-3	Textiles-Test methods for nonwovens-Part 3: Determination of tensile strength and elongation
NF EN 29073	Methods of tests for nonwovens-Part 3: Determination of tensile strength and elongation
NF EN 530	Abrasion resistance of protective clothing material

### **Fibres**

ASTM D1577	Standard Test Methods for Linear Density of Textile Fibers
ASTM D276	Standard Test Method for Identification of Fibers in Textiles
ASTM D7138	Standard Test Method to Determine Melting Temperature of Synthetic Fibers
CAN/CGSB 4.2 No. 48/ISO 137	Wool - Determination of Fibre Diameter - Projection Microscope Method
CAN/CGSB 4.2 No.14 Serie	Quantitative Analysis of Fibre Mixtures
FTMS 191A No 1534	Melting Point of Synthetic Fibers

### **Yarns**

ASTM D2256	Standard Test Method for Tensile Properties of Yarns by the Single-Strand Method
ASTM D3218	Standard Specification for Polyolefin Monofilaments Except for: Width, Gloss, Polyolefin-Material Cleanliness, Hot Water Shrinkage (D2259)
CAN/CGSB 4.2 No. 5.2	Linear Density of Yarn in SI Units
CAN/CGSB 4.2 No. 9.4	Breaking Strength of Yarns - Single Strand Method

### **Notes:**

**ISO/IEC 17025:2005:** General Requirements for the Competence of Testing and Calibration Laboratories

**AATCC :** American Association of Textile Chemists and Colorists

**ASTM :** American Society of Testing Methods



**Standards Council of Canada**  
**Conseil canadien des normes**

**BNQ** : Bureau de normalisation du Québec  
**CAN** : Canadian Test Method from the «Canadian General Standard Board»  
**CAN/CGSB** : Canadian General Standard Board  
**CAN/ULC**: Canadian Underwriters Laboratory  
**CFR**: Code Federal Regulation  
**CPAI**: Canvas Products Association International

**CSA**: Canadian Standard Association  
**DOT/FAA/AR** : Test method from the «Federal Aviation Administration»  
**FAR** : Federal Aviation Regulation  
**EN** : Test method from the «European Standard Committee»  
**EPA**: Environmental Protection Agency  
**FTMS** : Federal Test Method Standard  
**GRI** : Geosynthetic Research Institute  
**ICC-ES** : International Code Council Evaluation Service  
**ISO** : International Standard Organization  
**NF** : Test method from the «Association française de normalisation»  
**NFPA** : National Fire Protection Association  
**NQ** : Test method from the «Bureau de normalisation du Québec»  
**PGI**: PVC Geomembrane Institute  
**PSTC**: Pressure Sensitive Tape Council  
**SAE** : Society of Automobile Engineers  
**UL** : Underwriters Laboratory  
**UPH** : Test method from the «Upholstered Furniture Action Council»

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