TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 40

Legal Name of Accredited Laboratory: GROUPE CTT INC. / CTT GROUP INC.
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<th>SCC File Number:</th>
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<td>BNQ-EL</td>
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<tr>
<td>Provider File Number:</td>
<td>26950-1</td>
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<tr>
<td>Accreditation Standard(s):</td>
<td>ISO/IEC 17025:2005</td>
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</table>
| Fields of Testing: | Chemical/Physical  
 | Mechanical/Physical  
 | Thermal & Fire Resistance |
| Initial Accreditation: | 1987-08-13 |
| Most Recent Accreditation: | 2020-10-01 |
| Accreditation Valid to: | 2021-05-11 |

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 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 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 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 D5493  Standard Test Method for Permittivity of Geotextiles Under Load

ASTM D5514  Standard Test Method for Large Scale Hydrostatic Puncture Testing of 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 D5885  Standard Test Method for Oxidative Induction Time of Polyolefin Geosynthetics by High-Pressure Differential Scanning Calorimetry


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 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 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 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 de l'épaisseur à pressions spécifiées - Partie 1: couches simples (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 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 F1914: Standard Test Methods for Short-Term Indentation and Residual Indentation of Resilient Floor Covering
- 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
- CAN/ULC S704: Standard for Thermal Insulation, Polyurethane and Polyisocyanurate Boards, Faced (Only for: Dimensions, Water Vapor Permeance,
Dimensional Stability, Water Absorption, Flexural Strength, Compressive and Tensile Strength)

CAN/ULC S706.1 Standard for Wood Fibre Insulating Boards for Buildings
Except for: Air permeance, Surface burning, Thermal resistance

Miscellaneous Construction Materials

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 Tape
PSTC 107 Shear Adhesion of Pressure Sensitive Tape
PSTC 5 Quick Stick of Pressure Sensitive Tape

Roof Coverings

Except for: Appearance and Dimensions of Rolls, Strength, Pliability, Loss on Heating
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)
Except for: Bituminous Saturant
ASTM D5323 Practice for Testing Load-Strain Properties of Roofing Membranes
ASTM D5602 Standard Test Method for Static Puncture Resistance of Roofing Membrane Specimens


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
Exception 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 D2939 Standard Test Methods for Emulsified Bitumens Used as Protective Coatings, (Section: Resistance to water)


ASTM D5385 Standard Test Method for Hydrostatic Pressure Resistance of Waterproofing Membranes


CAN/CGSB-37.50 Hot-applied, Rubberized Asphalt for Roofing and Waterproofing
Exception 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
**ELASTOMERS AND PROTECTIVE AND COATINGS**

*(Composites)*

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**Plastics, Resins and Rubbers:**

**Plastics**

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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
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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 (Discontinued en 2000, replace par G154)
ISO 1133   Melt Flow Index
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-Méthodes de détermination de la masse volumique des plastiques non alvéolaires-Partie 1: Méthode par immersion, méthode du pycnomètre en milieu liquide et méthode par titrage
ISO 13953  Tubes et raccords en polyéthylène (PE)-Détermination de la résistance en traction et du mode de rupture d’éprouvettes prélevées dans des assemblages par soudage bout à 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
MA.100-S.T.1.1  Détermination des solides totaux et des solides totaux volatils : méthode gravimétrique (only for: Humidité, matières volatiles à 550 °C, matière organique à 550 °C and cendres dans les solides)
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 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
### Standards of Canada

**ASTM D523** Standard Test Method for Specular Gloss

**ASTM D5644** Standard Test Methods for Rubber Compounding Materials Determination of Particle Size Distribution of Recycled Vulcanize 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-O2  Determination of Total Lead in Paints and Applied Coatings

MEDICAL

Medical Products:

Treatment Equipment

ASTM F1862  Standard Test Method for Resistance of Medical Face Masks to Penetration by Synthetic Blood (Horizontal Projection of Fixed Volume at a Known Velocity)
EN 14683  Medical face masks – Requirements and test methods (Only for: Method for determination of breathability (differential pressure)-Annex C)

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))

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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 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
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  Workwear for protection against hydrocarbon flash fire and optionally steam and hot fluids
CAN/CGSB 155.22  Fireline workwear for wildland 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  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

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 42 Water Resistance: Impact Penetration
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 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 D2594  Standard Test Method for Stretch Properties of Knitted Fabrics Having Low Power
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 D3885  Standard Test Method for Abrasion Resistance of Textile Fabrics (Flexing and Abrasion 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 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
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)
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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 Resistence 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 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 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:
AATCC : American Association of Textile Chemists and Colorists
ASTM : American Society of Testing Methods
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
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»
PGL : 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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