

TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Legal Name of Accredited Laboratory: **GROUPE CTT INC. / CTT GROUP INC.**

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| SCC File Number: | 15056 |
| Provider: | BNQ-EL |
| Provider File Number: | 26950-1 |
| Accreditation Standard(s): | ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories |
| Fields of Testing: | Chemical/Physical Mechanical/Physical Thermal & Fire Resistance |
| Initial Accreditation: | 1987-08-13 |
| Most Recent Accreditation: | 2024-07-07 |
| Accreditation Valid to: | 2027-08-13 |

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)

Soils:

(Physical Parameters)

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

(Geosynthetics)

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| ASTM D1203 | Test Method for Volatile Loss from Plastic Film Using activated Carbon |
| ASTM D1593 | Specification for Nonrigid Vinyl Chloride Plastic Sheeting (thickness) |
| 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 D4491 | Standard Test Method for Water Permeability of Geotextiles by Permittivity (only method A) |
| ASTM D4533 | Standard Test Method for Trapezoid Tearing Strength of Geotextiles |
| 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) Flow 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 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. Only for: Procedure A and B |

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| 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 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 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 |

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| 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 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 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 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 |
| BNQ 3624-115 | Tuyaux et raccords en polyéthylène (PE) - Tuyaux annelés flexibles pour le drainage - Caractéristiques et méthodes d'essais |
| BNQ 7009-210 | Géotextiles utilisés en génie routier – Classification, caractéristiques et méthodes d'essai |
| CAN/CGSB 148.1-10 | Geotextiles - Filtration Opening Size |
| 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 |
| ISO 10319 | Geotextiles - Wide-width tensile test (as per NF EN ISO 10319) |
| 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) |

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| ISO 12956 | Geotextiles and geotextile-related products - Determination of the characteristic opening size (as per NF EN ISO 12956) |
| ISO 12958 | Geotextiles and geotextile-related products -- Determination of water flow capacity in their plane |
| ISO 13438 | Geotextiles and geotextile-related products - Screening test method for determining the resistance to oxidation |
| ISO 9863-1 | Geosynthetics-Determination of thickness at specified pressures-Part 1: Single layers (only at 2kPa) |
| ISO 9864 | Geotextiles -- Determination of mass per unit area |
| 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 |
| ASTM D8117 | Standard Test Method for Oxidative Induction Time of Polyolefin Geosynthetics by Differential Scanning Calorimetry |

Construction Materials (excluding textile products):

Insulating Materials

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| ASTM C203 | Standard Test Method for Breaking Load and Flexural Properties of Block-Type Thermal Insulation |
| ASTM D3574 | Standard Test Method for Breaking Load and Flexural Properties of Block-Type Thermal Insulation ("Test E" only) |
| CAN/ULC S704.1 | 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

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

Roof Coverings

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| 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, , Water Absorption, Water Tightness and Warm Water Resistance) |
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| ASTM D4073 | Test Method for Tensile-Tear Strength of Bituminous Roofing Membranes (Except for ASTM D95) |
| ASTM D4434 | Standard Specification for Poly(Vinyl Chloride) Sheet Roofing |
| ASTM D4869 | Standard Specification for Asphalt-Saturated Organic Felt Underlayment Used in Steep Slope Roofing (only for: Tear, Pliability, Loss on Heating, Liquid water transmission, Breaking Strength, dimensional stability, width) |
| ASTM D5323 | Standard Practice for Determination of 2 % Secant Modulus for Polyethylene Geomembranes |
| ASTM D5635 | Standard Test Method for Dynamic Puncture Resistance of Roofing Membrane Specimens |
| EN 12311-1 | Flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing - Determination of tensile properties |
| ICC-ES AC207 | Acceptance Criteria For Polypropylene Roof Underlayments |
| ICC-ES AC48 | Acceptance Criteria For Roof Underlayment for Use in Severe Climate Areas |

Vapour Barriers, Water Proofing Membranes

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| ASTM C794 | Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants |
| 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-51.33 | Vapour Barrier Sheet, excluding Polyethylene, for Use in Building Construction |
| CAN/CGSB-51.34 | Pare-vapeur en feuille de polyéthylène pour bâtiments |
| ICC-ES AC38 | Acceptance Criteria for Water-Resistive Barriers - Polymeric-Based Barriers |

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ELASTOMERS AND PROTECTIVE AND COATINGS

(Composites)

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| ASTM C297 | Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions |
| 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 (only for: procedures B and F). |

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| ASTM D4541 | Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers |
| ASTM D5961 | Standard Test Method for Bearing Response of Polymer Matrix Composite Laminates |
| ASTM D7028 | Standard Test Method for Glass Transition Temperature (DMA T _g) 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

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| 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 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 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 D1790 | Standard Test Method for Brittleness Temperature of Plastic Sheeting by Impact |
| 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 |

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| ASTM D2565 | Standard Practice for Xenon-Arc Exposure of Plastics Intended for Outdoor Applications |
| 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 D3163 | Standard Test Method for Determining Strength of Adhesively Bonded Rigid Plastic Lap-Shear Joints in Shear by Tension Loading |
| ASTM D3350 | Standard Specification for Polyethylene Plastics Pipe and Fittings Materials Except for: ASTM D1505, D2837, F1473, F2263, ISO 12162 |
| ASTM D3418 | Standard Test Method for Transition Temperatures of Polymers by Differential Scanning Calorimetry |
| ASTM D3763 | Standard Test Method for High Speed Puncture Properties of Plastics Using Load and Displacement Sensors |
| ASTM D3895 | Standard Test Method for Oxidative Induction Time of Polyolefins by Differential Scanning Calorimetry |
| 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 D5630 | Standard Test Method for Ash Content in Plastics |
| ASTM D570 | Standard Test Method for Water Absorption of Plastics |
| 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 (Only for: Method A) |
| ASTM D7176 | Standard Specification for Non-Reinforced Polyvinyl Chloride (PVC) Geomembranes Used in Buried Applications |
| 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 Strength (A—Grab Test Method and B—Cut Strip Test Method), Elongation, Bursting Strength (A – Ball Burst Method and B – Diaphragm Burst Method), Puncture Resistance, Tearing Strength (A—Pendulum Method and B—Tongue Tear Method), Hydrostatic Resistance (A—Mullen Type Tester), Adhesion Coating (to Fabrics), Strength of Coating, Low Temperature Bend Test, Seam Strength and Accelerated Heat Aging (Oven Method)) |

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| 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 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 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 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 |
| 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 1421 | Rubber-or plastics-coated fabrics-Determination of tensile strength and elongation at break |
| ISO 18553 | Method for assessment of the degree of pigment or carbon black dispersion in polyolefin pipes, fittings and compounds |
| ISO 4675 | Rubber- or plastics-coated fabrics – Low temperature bend test |

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| ISO 4892-2 | Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc Lamps |
| ISO 527-3 | Plastics - Determination of tensile properties - Part 3: Test conditions for films and sheets |

Resins and Rubbers

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| ASTM D2240 | Standard Test Method for Rubber Property-Durometer Hardness (for durometer of type A, Type D) |
| ASTM D3767 | Standard Practice for Rubber-Measurement of Dimensions |
| 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 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 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 |

MARKETPLACE PRODUCTS-CONSUMER AND BUSINESS

Furniture and Consumer Articles:

Hazardous Products

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| 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-E1001-08.3 | Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry) |
| CPSC-CH-E1002-08.3 | Standard Operating Procedure for Determining Total Lead (Pb) in Nonmetal Children's Products |
| CPSC-CH-E1003-09.1 | Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings |

MEDICAL

Medical Products:

Treatment Equipment

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| 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

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| ASTM C627 | Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester |
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TEXTILES AND FIBROUS MATERIALS

Apparel and Other Finished Textile Products:

(Others (fire and flammability))

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| 16 CFR Part 1610 | Standard for the flammability of clothing textiles– except Dry Cleaning |
| 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 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 E662 | Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials |
| ASTM F1506 | Standard Performance Specification for Flame Resistant and Electric Arc Rated Protective Clothing Worn by Workers Exposed to Flames and Electric Arcs |

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| | Except for: Article: 7.7 Arc Rating, Article: 7.6.2 Flammability after Dry Cleaning, Article: 7.5.1 Dimensional change after Dry Cleaning (articles # are from 2022 edition) |
| ASTM F1891 | Standard Specification for Arc and Flame Resistant Rainwear (Except for: Tearing strength et Stiffness) |
| ASTM F1930 | Evaluation of Flame Resistant Clothing for Protection Against Fire Simulations Using an Instrumented Manikin |
| 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, (Only section 1) |
| 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 |
| CPAI-84 | Specification for Flame-Resistant Materials in Camping Tentage |
| CAN/ULC S668 | Standard for Liners Used for Secondary Containment of Aboveground Flammable and Combustible Liquid Tanks. Except for secondary containment liner class III and vapor transmission test |
| 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 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 (Only for : Method 1) |

Clothing

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| 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 – (Only for-Tension Test) |
| ANSI/ISEA 107 | High Visibility Safety Apparel and Accessories (Except for: Drycleaning (AATCC 158 method)) |
| ASTM B117 | Standard Practice for Operating Salt Spray (Fog) Apparatus |
| ASTM D2810 | Standard Test Method for pH of Leather |
| 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 ¹ |
| ASTM F2992 / F2992M | Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing with Tomodynamometer (TDM-100) Test Equipment |

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| ASTM F903 | Standard Test Method for Resistance of Materials Use in Protective Clothing to Penetration by Liquids |
| CAN/CGSB 155.20 | Workwear for protection against hydrocarbon flash fire and optionally steam and hot fluids. Except for : Drycleaning (AATCC 158 method) and labels |
| CAN/CGSB 155.22 | Fireline workwear for wildland firefighters (Except for: polarizing microscope and heat thermal shrinkage) |
| CAN/CGSB 4.2 No. 27.5 | Flame Resistance - 45° Angle Test - One Second Flame Impingement |
| CSA Z96 | High Visibility Safety Apparel Except for: Drycleaning (ASTM D2724 method) |
| EN 388 | Gants de protection contre les risques mécaniques-(except,blade cut) |
| EN 471 | High Visibility Warning Clothing Except for: ISO 105-E04, ISO 105-N01, ISO 105-X11, ISO 13938-1 and ISO 4674-1 methods) |
| 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, 8.6 Heat and thermal shrinkage, 8.10 Thermal protective performance, 8.11 Thread Melting, 8.12 Tear, 8.13 Burst Strength, 8.24 Cleaning shrinkage, 8.26 Water penetration, 8.27 Liquid penetration, 8.33 Total Heat Loss (THL), 8.45 Retroreflectivity and fluorescence test, (articles # are from edition 2018.) |
| NFPA 1977 | Standard on Protective Clothing and Equipment for Wildland Fire Fighting Only for: Articles: 8.6 Tear resistance, 8.7 Cleaning Shrinkage, 8.9 Thread Heat Resistance, 8.16 Retroreflectivity, (Article numbers are from 2022 edition) |
| NFPA 1999 | Standard on Protective Clothing and Ensembles for Emergency Medical Operations Only for: Article 8.28 Moisture Vapor Transmission Rate Test (article # is from 2018 edition) |
| NFPA 2112 | Standard on Flame-Resistant Garments for Protection of Industrial Personnel against Flash Fire Only for: Articles: 8.2 HTP, 8.3 Flame Resistance Test, 8.4 Heat and Thermal Shrinkage Resistance Test, 8.5 Manikin Test, 8.6 Thread Heat Resistance) Except for Drycleaning (AATCC 158 method). (Article numbers are from 2023 edition) |

Floor coverings

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| CAN/CGSB 4.2 No. 27.6 | Flame Resistance - Methenamine Tablet Test for Textile Floor Coverings |
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Textile Mill Products: (Including synthetic and natural fibres):

Aircraft Materials

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

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| 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 16.3 | Colorfastness to Light: Xenon-Arc |
| 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 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 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 96 | Dimensional Changes in Commercial Laundering of Woven and Knitted Fabrics Except Wool |
| ASTM D1424 | Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum Type (Elmendorf) Apparatus |
| ASTM D1683 | Test Method for Failure in Sewn Seams of Woven Fabrics(Discontinued 1999) (as per CAN/CGSB 4.2 No. 32.2) |

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| 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, , Bursting strength) |
| ASTM D3939 | Standard Test Method for Snagging Resistance of Fabrics (Mace) |
| 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 D4966 | Standard Test Method for Abrasion Resistance of Textile Fabrics (Martindale Abrasion Tester Method) ¹ |
| 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 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 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 |

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| 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. 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. 27.10 | 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 |

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| 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. 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. 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 |
| 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 |
| 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 |

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| 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 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 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 (Only for: 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-- (Only for : Part 3: Determination of tensile strength and elongation. |

Fibres

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| 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 | Quantitative Analysis of Fibre Mixtures |

Yarns

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| ASTM D2256 | Standard Test Method for Tensile Properties of Yarns by the Single-Strand Method |
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| 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 |

Number of Scope Listings: 335

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
- 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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