

## SCOPE OF ACCREDITATION

**CAMBRIDGE MATERIALS TESTING LIMITED Mississauga Division**  
**6991 Millcreek Drive Unit 13**  
**Mississauga, ON**  
**L5N 6B9**

Accredited Laboratory No. 447  
(Conforms with requirements of CAN-P-4E (ISO/IEC 17025:2005))

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CLIENTS SERVED: Commercial any party

FIELDS OF TESTING: Chemical/Physical, Mechanical/Physical

ISSUED ON: 2012-02-13

VALID TO: 2014-05-13

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

#### **Adhesives (Organic Resins) and Glues:**

##### **Adhesives**

ASTM D1876 Test Method for Peel Resistance of Adhesives (T-Peel Test)  
ASTM D3330 Test Method for Peel Adhesion of Pressure Sensitive Tape  
ASTM D903 Test Method for Peel or Stripping Strength of Adhesive Bonds

#### **Plastics; Resins and Rubbers:**

##### **Plastics**

ASTM D1004	Test Method for Tear Resistance (Graves Tear) of Plastic Film and Sheeting
ASTM D1622	Test Method for Apparent Density of Rigid Cellular Plastics
ASTM D2584	Test Method for Ignition Loss of Cured Reinforced Resins
ASTM D3418	Test Method for Transition Temperatures of Polymers by Differential Scanning Calorimetry
ASTM D4495	Test Method for Impact Resistance of Poly (Vinyl Chloride) (PVC) Rigid Profiles by Means of a Falling Weight
ASTM D5208	Practice for Fluorescent Ultraviolet (UV) Exposure of Photodegradable Plastics
ASTM D5510	Practice for Heat Aging of Oxidatively Degradable Plastics
ASTM D570	Test Method for Water Absorption of Plastics
ASTM D618	Practice for Conditioning Plastics for Testing
ASTM D790	Test Methods for Flexural Properties of Un-reinforced and Reinforced Plastics and Electrical Insulating Materials
ASTM D792	Test Method for Density and Specific Gravity (Relative Density) of Plastics by Displacement
ASTM D882	Test Method for Tensile Properties of Thin Plastic Sheeting
ASTM E1131	Test Method for Compositional Analysis by Thermogravimetry
ASTM E1252	Practice for General Techniques for Obtaining Infrared Spectra for Qualitative Analysis
ASTM E1269	Test Method for Determining Specific Heat Capacity by Differential Scanning Calorimetry
ASTM E2009	Standard Test Method for Oxidation Onset Temperature of Hydrocarbons by Differential Scanning Calorimetry
ASTM F1679	Test Method for Using a Variable Incidence Tribometer (VIT)
ASTM G154	Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials
GM 9077	Test for Glass Content of Glass Reinforced Plastics
GM 9077P	Test for Glass Content of Glass Reinforced Plastics
GM 9306P	Ash Content of Plastic Materials
ISO 11357-3	Plastics-Differential Scanning Calorimetry (DSC) - Part 3: Determination of Temperature and Enthalpy of Melting and Crystallization
ISO 1183 Method A	Plastics-Methods for Determining the Density and Relative Density of Non-Cellular Plastics
ISO 178	Plastics-Determination of Flexural Properties
ISO 291	Plastics-Standard Atmospheres for Conditioning and Testing
ISO 3451 Part 1	Plastics-Determination of Ash
ISO 62	Plastics-Determination of Water Absorption

## **Resins and Rubbers**

ASTM D2240

Test Method for Rubber Property - Durometer Hardness

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

### **Environmental**

#### **Liquids**

ASTM D5085

Test Method for Determination of Chloride, Nitrate, and Sulfate in Atmospheric Wet Deposition by Chemically Suppressed Ion Chromatography

#### **Solids**

EPA Method 9045D

Soil and Waste pH

#### **Water/Wastewater**

EPA Method 7196A

Chromium, Hexavalent (Colorimetric)

EPA Method 9056A

Determination of Inorganic Anions by Ion Chromatography

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

#### **Air Monitoring**

ASTM D3464

Test Method for Average Velocity in a Duct Using a Thermal Anemometer

ASTM D4413

Test Method for Determination of Ethylene Oxide in Workplace Atmospheres (Charcoal Tube Methodology) (Sampling in accordance with ASTM D3686)

ASTM D4490

Practice for Measuring the Concentration of Toxic Gases or Vapors Using Detector Tubes

ASTM D4532

Test Method for Respirable Dust in Workplace Atmospheres

ASTM D4599

Practice for Measuring the Concentration of Toxic Gases or Vapors Using Length-of-Stain Dosimeters

ASTM D4856 Modified

Test Method for Determination of Sulfuric Acid Mist in the Workplace Atmosphere (Ion Chromatographic)

ASTM D7035

Test Method for Determination of Metals and Metalloids in Airborne Particulate Matter by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)

ASTM D7049 Modified

Test Method for Metal Removal Fluid Aerosol in Workplace Atmospheres

AWS F1.1M	Method for Sampling Airborne Particulates Generated by Welding and Allied Processes
AWS F1.5M	Methods for Sampling and Analyzing Gases from Welding and Allied Processes (Ozone as per OSHA ID-214, Carbon Monoxide as per QTP 41M, Nitric Oxide as per OSHA ID 190, Nitrogen Dioxide as per OSHA ID 182)
NIOSH 0500 Modified	Particulates Not Otherwise Regulated, Total
NIOSH 0600 Modified	Particulates Not Otherwise Regulated, Respirable
NIOSH 1501	Hydrocarbons, Aromatic
NIOSH 7300	Elements by ICP (Nitric/Perchloric Acid Ashing)
NIOSH 7903	Acids, Inorganic
NIOSH 7906	Fluorides aerosol and gas, by IC
OSHA 7	Organic Vapours
OSHA ID-182	Nitrogen Dioxide in Workplace Atmospheres (Ion Chromatography)
OSHA ID-190	Nitric Oxide in Workplace Atmospheres
OSHA ID-214	Ozone in Workplace Atmospheres (Impregnated Glass Fiber Filter)
QTP 41M	Test Method for Carbon Monoxide in the Atmosphere (Continuous Measurement by Nondispersive Infrared Spectrometry)

### **Asbestos**

EPA/600/R-93/116	Test Method for the Determination of Chrysotile Asbestos in Bulk Building Materials, by Stereomicroscopic Examination, Polarized Light Microscopy, and Gravimetry
Health Canada Method C-25	Determination of Bulk Chrysotile Asbestos by PLM in Consumer Products
NIOSH 9002	Chrysotile Asbestos (bulk) by PLM

### **Water Quality:**

#### **Industrial Effluent**

Refer to minor sub-heading: *Recycled Waters*

#### **Process Waters**

Refer to minor sub-heading: *Recycled Waters*

#### **Recycled Waters**

ASTM D4327 including extraction methods QTP 25M	Test Method for Anions in Water by Chemically Suppressed Ion Chromatography
ASTM D4691	Practice for Measuring Elements in Water by Flame

including extraction methods EPA Method 3050B EPA Method 3051A EPA Method 3052	Atomic Absorption Spectrophotometry
ASTM E70	Test Method for pH of Aqueous Solutions with the Glass Electrode
EPA Method 300.1	Determination of Inorganic Anions in Drinking Water by Ion Chromatography
EPA Method 5021 Modified	Qualitative Analysis of Volatile Organic Compounds in Soils and Other Solid Matrices Using Equilibrium Headspace and GC/FID

## **MARKETPLACE PRODUCTS-CONSUMER AND BUSINESS**

### **Furniture and Consumer Articles:**

#### **Hazardous Products**

Health Canada Method C-02.2	Determination of Total Lead in Surface Coating Materials in Consumer Products
Health Canada Method C-02.3 including extraction methods EPA Method 3050B EPA Method 3052	Determination of Total Lead in Polyvinyl Chloride Products by Closed Vessel Microwave Digestion
Health Canada Method C03	Determination of Leachable Arsenic (As), Selenium (Se), Cadmium (Cd), Antimony (Sb), and Barium (Ba) in Applied Coatings
Health Canada Method C-13	Determination of the pH of Consumer Products in Aqueous Solutions
Health Canada Method M00.1	Test Procedures to Determine Mechanical Hazards Small Components
Health Canada Method M-00.2	Test Procedures to Determine Mechanical Hazards (Sharp Edges)
Health Canada Method M-00.3	Test Procedures to Determine Mechanical Hazards (Sharp Points)
Health Canada Method M-01.1	Test Procedures to Determine the Mechanical Hazards of Toys Reasonable Foreseeable Use
Health Canada Method M-01.2	Test Procedures to Determine the Mechanical Hazards of Toys Reasonable Foreseeable Use of Dolls and Plush Toys

#### **Household Products (See also CHEM)**

16 CFR Part 1303	Ban Of Lead-Containing Paint And Certain Consumer Products Bearing Lead-Containing Paint
16 CFR Part 1500.44	Method of Determining Extremely Flammable and Flammable Solids

16 CFR Part 1700	Requirements for the Special Packaging of Household Substances
ASTM D1976 Modified including extraction methods EPA Method 3050B EPA Method 3051A EPA Method 3052 QTP 25M	Test Method for Elements in Water by Inductively Coupled Argon Plasma Atomic Emission Spectroscopy
ASTM E1613 including extraction methods EPA Method 3050B EPA Method 3051A EPA Method 3052	Determination of Lead by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES) Technique
ASTM F963	Standard Consumer Safety Specification for Toy Safety Only for: 4.3.5 Paint and Similar surface coating materials pertaining to Lead, Antimony, Arsenic, Barium, Cadmium, Chromium, Mercury, and Selenium
CPSC-CH-C1001-09	Standard Operating Procedure for Determination of Phthalates
CPSC-CH-E1001-08 including extraction methods EPA Method 3050B EPA Method 3051A EPA Method 3052	Standard Operating Procedure for Determining Total Lead (Pb) in Children s Metal Products (Including Children s Metal Jewelry)
CPSC-CH-E1002-08 including extraction methods EPA Method 3050B EPA Method 3051A EPA Method 3052	Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products
CPSC-CH-E1003-09 including extraction methods EPA Method 3050B EPA Method 3051A EPA Method 3052	Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings
CSA Z76.1	Reclosable Child-Resistant Packages
Health Canada Method C-02.4 including extraction methods EPA Method 3050B EPA Method 3051A EPA Method 3052	Determination of Total Lead in Metallic Consumer Products
Health Canada Method C-11.4	Determination of Benzene, Toluene, Ethylbenzene and Xylenes in Consumer Products by Gas Chromatography / Mass Spectrometry
Health Canada Method C-23	Determination of the Flame Projection and Flashback of Consumer Products Enclosed in Pressurized Containers
Health Canada Method C-29	Determination of Leakage in Child Resistant Containers
Health Canada Method C-34 Modified	Determination of Phthalates in Polyvinyl Chloride Consumer Products
ISO 8317	Child-resistant packaging - Requirements and testing procedures for reclosable packages

**(Noise)**

CSA Z107.56                      Procedures for the Measurement of Occupational Noise Exposure

**(Toys)**

16 CFR Part 1500.50-53              Test Method for Simulating Use and Abuse of Toys and Other Articles Intended for Use by Children

16 CFR Part 1501                      Method for Identifying Toys and Other Articles Intended for Use by Children under 3 Years of Age which Present Choking, Aspiration, or Ingestion Hazards Because of Small Parts

16 CFR Part 1511                      Requirements for Pacifiers

ASTM F963                              Standard Consumer Safety Specification for Toy Safety Only for:

Section 4.3.5 - Paint and Similar Surface Coating Materials

Section 4.6.1 Small Objects

Section 4.7 Accessible Edges

Section 4.8 Projections

Section 4.9 Accessible Points

Section 4.10 Wires or Rods

Section 4.11 Nails and Fasteners

Section 4.12 Packaging Film

Section 4.17 Wheels, Tires, and Axles

Section 4.27 Stuffed and Beanbag-Type Toys

BS EN 71-3                              Safety of Toys - Part 3: Migration of Certain Elements

**NON METALLIC MINERALS AND PRODUCTS**

**Ceramics; Clay and Clay Products:**

**(Ceramics; Clays; Bricks and Structural Tile; Refractory and Firebrick; and Porcelain Enamels)**

ASTM D6349                              Standard Test Method for Determination of Major and Minor Elements in Coal, Coke, and Solid Residues from Combustion of Coal and Coke by Inductively Coupled Plasma - Atomic Emission Spectrometry

**Petroleum Refinery Products: (Including asphalt materials; petrochemicals; fuels and lubricants)**

**Fuels and Lubricants**

ASTM D5185	Test Method for Determination of Additive Elements, Wear Metals, and Contaminants in Used Lubricating Oils and Determination of Selected Elements in Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)
ASTM D92	Test Method for Flash and Fire Points by Cleveland Open Cup Tester
ASTM D93	Test Methods for Flash-Point by Pensky Martens Closed Cup Tester
ASTM E1858	Test Method for Determining Oxidation Induction Time of Hydrocarbons by Differential Scanning Calorimetry
Ford ES5L2P-7W092-AA	Transmission Contamination Specification
Ford ESBC3P-7W092-BA	Transmission Contamination Specification
ISO 4406	Hydraulic Fluid Power - Fluids - Method for coding the level of contamination by solid particles
ISO 4407	Hydraulic Fluid Power - Fluid Contamination - Determination of particulate contamination by the counting method using an optical microscope
QTP 43M	Test Method for Refractive Index of Hydrocarbon Liquids

**Soil; Aggregates; Stone; Sand:**

*ASTM D6349 listed under Ceramics; Clay and Clay Products*

**Notes:**

*CAN-P-4E (ISO/IEC 17025):* General Requirements for the Competence of Testing and Calibration Laboratories

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S. Cross, Director, Conformity Assessment

Date: 2012-02-13

Number of Scope Listings: 105

SCC 1003-15/545

Partner File #0

Partner: None