

A glimpse of the future, one test at a time

Providing certainty since 1999. ISO 17025 Accredited



**ACCURACY
AVAILABILITY
RESPONSIVENESS**

A WIDE RANGE OF MATERIAL TEST SERVICES

Simple solutions to complex problems

Since 1999, Micom offers a wide range of material testing services. We offer physical and mechanical testing using industry standards such as: ASTM, ANSI, ISO, BIFMA, SAE, ISTA, IEC and MIL-STD. We partner with our customers to improve their short and long term performance.

Our offering includes: vibrations, packaging testing, temperature & humidity cycling, corrosion, UV exposure, impacts, tensile properties and many other material testing services widely used by various industry types.

Micom is ISO 17025 accredited by the Standard Council of Canada (SCC). We are also recognized/accredited by many other organizations such as: World Health Organization, International Safe Transit Association, Transport Canada, Health Canada, etc.

Accelerated aging: real answers, fast.

Accelerated aging answers critical questions such as: how will my product fare over its life expectancy? Will we have warranty issues? Overall, improve your customers' satisfaction.

Our vision is that testing not only makes better products but also facilitates sustainable development.

Beyond testing, we will help you in selecting the right test methods and conditions to obtain meaningful results in a cost effective solution. Our measure of success is our long-term client partnership.



Material Testing

- ▶ Coatings
- ▶ Polymers
- ▶ BIFMA
- ▶ ASTM



Packaging

- ▶ ISTA
- ▶ ASTM
- ▶ HAZMAT
- ▶ Medical Devices



Environmental

- ▶ Sun / UV Exposure
- ▶ Corrosion
- ▶ Temperature / Humidity
- ▶ Vibrations

MATERIAL TESTING MADE EASY

Simple solutions to complex problems

“ *Solution to tough problem should be made as simple as possible, but not simpler* ”

Albert Einstein

Testing: A strategic investment

Our promise: provide world-class lab services at an affordable cost.

We offer a full range of standardized tests and our engineers and scientists can also provide you with customized test solutions.

Our commitment to service and short turnaround time will help you bring your products to market swiftly without headaches.





FULL RANGE OF TESTING CAPABILITIES FOR THE 21ST CENTURY

The essence of what we do is to simulate real life, in the laboratory, under controlled yet accelerated conditions. Below are some of the test methods we use frequently:

Standardized tests:

Surface finish testing:

- ▶ Xenon Arc Exposure: ASTM G155
- ▶ QUV Exposure: ASTM G154
- ▶ Salt Spray testing: ASTM B117
- ▶ Cyclic Corrosion Testing: ASTM G85
- ▶ Conical Mandrel: ASTM D522
- ▶ Specular Gloss: ASTM D523
- ▶ Moisture absorption: ASTM D570
- ▶ Coating Film thickness: ASTM D1196
- ▶ Hardness: ASTM D2240
- ▶ Color Measurement: ASTM D2244
- ▶ Paint Adherence: ASTM D3359
- ▶ Scratch Resistance: ASTM D3363
- ▶ Abrasion Resistance: ASTM D4060
- ▶ Gardner Impact: ASTM D2794
- ▶ Cyclic Salt Fog & UV exposure: ASTM D5894

Package testing:

- ▶ ISTA 1A
- ▶ ISTA 3A
- ▶ ISTA 3B
- ▶ ISTA 3E
- ▶ ISTA 6-Samsclub
- ▶ ISTA 6-Amazon.com
- ▶ ASTM D-4169
- ▶ ASTM D-5276
- ▶ ASTM D-880
- ▶ ASTM D-6179
- ▶ ASTM D-6055
- ▶ TP 14850
- ▶ ISO 11607

Customized solutions for your custom needs:

You are not sure of which test you need? Simply ask us.

Our material testing experts can put together customized test protocols to simulate field failures or to simulate, on an accelerated basis, your product's actual field use.

If need be; we will create a custom test protocol that will address specifically your needs.

We are experts at breaking down technical problems in smaller, more manageable pieces , that can be addressed in a cost effective way.

Climate exposure:

- ▶ Climatic chambers - Humidity, temperature cycling
- ▶ -73°C to +150°C, 10 - 95% RH
- ▶ Sun / UV exposure - ASTM G-155, G-154
- ▶ Salt spray - ASTM B-117, G-85
- ▶ Accelerated temperature aging
- ▶ Field failures laboratory simulations
- ▶ Thermal shocks
- ▶ High & low temperature tensile & compression tests
- ▶ Long term exposure for stability studies

Mechanical properties:

- ▶ Tensile Strength - ASTM D-638, D-412, D-882...
- ▶ Compressive Strength - ASTM D-695, D-2990, D-4762
- ▶ Flexural Strength - ASTM D-790
- ▶ Foam - ASTM D-3574
- ▶ Latex - ISO 10282 & 11193
- ▶ Moisture Absorption - ASTM D-570
- ▶ Particle Board Testing - ASTM D-1037
- ▶ Specific Gravity - ASTM D-792

TRUSTED BY INDUSTRY LEADERS

Our test services are routinely used by industry leaders and we are accredited by international certification bodies. As such Micom is an ISO 17025 accredited laboratory (equivalent to ISO 9001 with additional performance requirements specific to laboratories). Our test services are very well recognized throughout the world.



AEROSPACE: Bombardier Aerospace, Zodiac Aerospace, Toray Composites Materials America



AUTOMOTIVE: Bombardier Recreational Products, Volvo Group, Consolidated Metco, Magneti Marelli



COATINGS: Rustguard, Protech



CONSUMER PRODUCTS: Artika, Anseco Group, Loblaw's



ELECTRONIC: Smart, TM4, Belden, Bionx



ENTERTAINMENT: Cirque du Soleil, Show Canada, Stageline



FOOD: Kraft, Danone, Clif Bar



HEALTH SCIENCES: ArjoHuntley, CAE Healthcare



INDUSTRIAL: Herman Miller, Venmar, Tafisa, Knoll



PHARMACEUTICAL: GSK Biologics, Genentech, Covidien, Stryker



POLYMER: IPL, Soucy Group, Urethane Technology



RETAILERS: Amazon, Costco, J.C. Penney

Accredited by:

- ▶ Standards Council of Canada (ISO 17025)
- ▶ International Safe Transit Association (ISTA)
- ▶ World Health Organization (WHO)
- ▶ SEFA (Scientific Equipment and Furniture Association)

Testing recognized by:

- ▶ Bombardier Recreational Products
- ▶ Bombardier Aerospace
- ▶ Transport Canada
- ▶ Health Canada
- ▶ Siemens
- ▶ ABB
- ▶ CSA International
- ▶ Many pharmaceutical companies (Genentech, GSK, Bristol-Myers...)
- ▶ GSA (US Government)



CONTACT

LET'S TALK ABOUT YOUR PROJECT

1-888-99-MICOM

info@micomlab.com

