



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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MECHANICAL

Valid To: July 31, 2020

Certificate Number: 1136.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on the following materials/products: Adhesives and Sealants; Varnish; Industrial Laminate; Ceramics; Films and Packaging; Leather; Packaging and Containers; Paper, Paperboard and Pulp; Plastics and Polymers; Rubber and Rubber Products; Textiles; Information Technology Equipment (ITE); Printed Wiring Board; Magnet Wire; and Wire Positioning Devices.

<u>Test:</u>	<u>Test Method(s) ^{1,2}:</u>
20 mm Flame Confirmation Test	ASTM D5207; IEC 60695-11-4
125 mm Flame Confirmation Test	ASTM D5207; IEC 60695-11-3
Horizontal Burning Test	UL 94 (Section 7); CAN/CSA C22.2 No. 0.17 (Section 4.2.3); ASTM D635; JIS K6911; IEC 60695-11-10; GB/T 5169.16; IEC 60950-1, (Sections 4.7.3.1-4.7.3.6); EN 60950-1, (Sections 4.7.3.1-4.7.3.6); UL 60950-1, (Sections 4.7.3.1-4.7.3.6); CAN/CSA C22.2 60950-1, (Sections 4.7.3.1-4.7.3.6); GB 4943.1, (Sections 4.7.3.1-4.7.3.6); BS EN 60695-11-10

Test:

Test Method(s) ^{1,2}:

Vertical Burning Test using a 125 mm Flame Source

UL 94 (Section 9);
IEC 60695-11-20;
CAN/CSA C22.2 No. 0.17 (Section 4.2.1);
ASTM D5048;
IEC 60950-1, (Sections 4.7.3.1-4.7.3.6);
EN 60950-1, (Sections 4.7.3.1-4.7.3.6);
UL 60950-1, (Sections 4.7.3.1-4.7.3.6);
CAN/CSA C22.2 60950-1, (Sections 4.7.3.1-4.7.3.6)

Vertical Burning Test

UL 94 (Section 8);
CAN/CSA C22.2 No. 0.17 (Section 4.2.2);
ASTM D3801;
JIS K6911;
IEC 60695-11-10;
GB/T 5169.16;
IEC 60950-1, (Sections 4.7.3.1- 4.7.3.6);
EN 60950-1, (Sections 4.7.3.1- 4.7.3.6);
UL 60950-1, (Sections 4.7.3.1- 4.7.3.6);
CAN/CSA C22.2 60950-1, (Sections 4.7.3.1- 4.7.3.6);
GB 4943.1, (Sections 4.7.3.1-4.7.3.6);
BS EN 60695-11-10

Thin Material Vertical Burning Test

UL 94 (Section 11);
CAN/CSA C22.2 No. 0.17 (Section 4.2.4);
ASTM D4804;
ISO 9773

Flame Propagation Test

ASTM C1166;
ASTM C542;
NFPA 130;
Title 49 CFR Part 238 Appendix B;
FTA Recommended Fire Safety;
Practices for Rail Transit Materials Selection

Migration Test for PWB

JPCA ET01-07

Flexibility

JIS C5016 (Section 8.6)

HAST (Highly Accelerated Stress Test)

JPCA ET08

Cross-sectional Observation

JIS C5012 (Section 6.2);
JIS C5016 (Section 6.2)

Flammability Testing for Aircraft
Interior Materials
(Vertical, Horizontal, 45-Degree, 60 Degree,
Flammability Test)

14 CFR 25 (Appendix F, Part 1);
CS 25 (Appendix F, Part 1);
JAR 25 (Appendix F, Part 1);
JCAB AIM Part III (Appendix F, Part 1);
RTCA/DO-160G (Section 26);
FAA Aircraft Materials Fire Test Handbook Chapter 1;
FAA Aircraft Materials Fire Test Handbook Chapter 2;
FAA Aircraft Materials Fire Test Handbook Chapter 3;
FAA Aircraft Materials Fire Test Handbook Chapter 4

Test:

Moisture Absorption

Test Method(s) ^{1,2}:

UL746A;
ASTM D570

Specific Gravity/Density Determination

ASTM D792 Method A

Environmental Tests

Visual Inspection	EN50155 (Section 13.4.1); IEC 60571 (Section 12.2.2)
Performance Test	EN50155 (Section 13.4.2); IEC 60571 (Section 12.2.3)
Low Temperature Start-up Test	EN50155 (Section 13.4.4); IEC 60571 (Section 12.2.4)
Dry Heat Test	EN50155 (Section 13.4.5); IEC 60571 (Section 12.2.5)
Low Temperature Storage Test	EN50155 (Section 13.4.6)
Cyclic Damp Heat Test	EN50155 (Section 13.4.7); IEC 60571 (Section 12.2.6)
Insulation Test	EN50155 (Section 13.4.9); IEC 60571 (Section 12.2.10)

¹When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is required to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA R101 - *General Requirements - Accreditation of ISO-IEC 17025 Laboratories*.

²UL 60950-1, IEC 60950-1, CSA C22 No. 60950-1, and EN 60950-1 base requirements are nearly identical; section numbers relate to all four editions, unless otherwise indicated. For example, North American Annex NAE is specifically included for Battery Circuits on this Scope.



Accredited Laboratory

A2LA has accredited

CHEMITOX, INC.

Tokyo, Japan

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 17th day of December 2018.

A blue ink signature of the Senior Director of Accreditation Services.

Senior Director, Accreditation Services
For the Accreditation Council
Certificate Number 1136.01
Valid to July 31, 2020

For the types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.