

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: December 31, 2024

Certificate Number: 0214.35

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 product types: Aerospace, Automotive, Avionics, Consumer Products, Electronics, Industrial, Medical, Military Telecommunication and Textiles.

Test Technology

Test Method(s):

Plating Adhesion

IPC-TM-650 (Method 2.4.1)

Strength/Compression

ASTM D638

(Bond Strength, Lap Shear Strength, Shear Strength, Compression/Compression Strength, Tension/Tensile Strength, Tack, Tear Strength, Tear Resistance, Propagation Tear, Peel Strength, Scratch Resistance)

Range:

Up to 22,500 lbs
(-170 to 425) °F

Test Technology

Test Method(s)¹:

Hardness
(Pencil, Shore A, Shore D, Shore O, Knoop,
Vickers, Barcol Hardness)

ASTM D3363; ASTM D2240;
ASTM E92; ASTM E384;
ASTM D2583; IPGTM-650 (Method 2.4.27.2)

Corrosion of Flux using Temperature/Humidity
Chamber

IPC-TM-650 (Method 2.6.15)

Hydrolytic Stability/Temperature/Humidity Aging

IPC-TM-650 (Methods 2.6.11 and 2.6.11.1);
MIL-I-46058; IPC-SM-840; IPGCC-830

Life at Elevated Ambient Temperature

MIL-STD-202, Method 108

Microscopic Evaluation/Visual Examination
Microsection Analysis (Cross Section)
(3 to 1,000x)

IPC-TM-650 (Methods 2.1.1, 2.1.2, 2.1.5,
and 2.1.10)

Outgassing

ASTM E595

Thermal Diffusivity

ASTM E1461

Thickness- Micrometer

ASTM D1005 (Methods C and D); MIL-I-46058

Goniometer/Hydrophobic Contamination
Contact Angle/Surface Wettability

ASTM C813; ASTM D7334

Ultraviolet Exposure

ASTM G154

Xenon Arc Exposure

ASTM G155

Shock

(Thermal Shock, Air-to-Air, Thermal Cycling
Temperature Cycling
Rapid Change of Temperature)

IPC-TM-650 (Methods 2.6.7, 2.6.7.1 and 2.6.7.2
Revision B);
MIL-STD-202, Method 107

Range:
(-75 to 180) °C

Solderability/Steam Aging

IPC-J-STD-002; IPC

Test Technology

Test Method(s)¹:

Instrumental Color Difference Measurements for Exterior Finishes, Textiles, and Colored Trim SAE J1545; ASTM D2244

Dry and Pry/Dye and Pull IPC-TM-650 (Method 2.4.53)

Supporting the following documents: IPM-840, IPGCC-830, IPG6012, IPG6013, IPG6018, MIL -A-28870, MIL-I-46058, MIL-P-50884, MIL-PRF-31032, MIL-PRF-55110, IPGJ-STD-004, IPC-J-STD-005

This laboratory also uses customer supplied specifications and/or methods directly related to the testing technologies and parameters listed above.

Facility studies performed according to IPC-653 "Certification of Facilities that Inspect/Test Printed Boards, Components and Materials."

¹When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA- R3101 General Requirements Accreditation of ISO/IEC 17025 Laboratories

²In-house Test Method.

³This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

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