

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT LOS ANGELES
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MECHANICAL

Valid To: July 31, 2022

Certificate Number: 0096.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location above, as well as one satellite laboratory listed below to perform the following tests on adhesives, composites and laminates, printed boards, electrical insulating materials, elastomers, plastics and engineering thermoplastics, graphite/boron reinforced thermoplastics, talc matrix composites, graphite/epoxy, graphite/bismaleimide, polyimide/glass, epoxy/glass, glass reinforced epoxy systems and graphite aramid or boron reinforced epoxies, and similar materials.

Test Method:

Test Title:

ASTM B117
ASTM B487

Standard Practice for Operating Salt Spray (Fog) Apparatus
Test Method for Metal and Oxide Coating Th

Test Method:

ASTM D3386-06

Test Title:

<u>Test Method:</u>	<u>Test Title:</u>
ASTM D5379	Test Method for Shear Properties of Composite Materials by the V- Notched Beam Method
ASTM D5420	Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact)
ASTM D5467	Test Method for Compressive Properties of Unidirectional Polymer Matrix Composites Using a Sandwich Beam
ASTM D5528	Mode I Interlaminar Fracture Toughness of Unidirectional Fiber Reinforced Polymer Matrix Composite
ASTM D5628	Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimens by Means of a Falling Dart (Tip or Falling Mass)
ASTM D5656	Test Method for Thick Adherend Metal Lap-Shear Joints Determination of the Stress-Strain Behavior of Adhesives in Shear Tension Loading
ASTM D5766	Open Hole Tensile Strength of Polymer Matrix Composite Laminates
ASTM D5868	Test Method for Lap Shear Adhesion for Fiber Reinforced Plastic (FRP) Bonding
ASTM D5961	Test Method for Bearing

<u>Test Method:</u>	<u>Test Title:</u>
BS EN 6040	Aerospace Series – Non-Metallic Material Test Method – Analysis of Thermoset Systems by High Performance Liquid Chromatography (HPLC) – Qualitative Only
ISO 178	Plastics – Determination of Flexural Properties
ISO 179	Plastics – Determination of Charpy Impact Properties – Part 1: Non-instrumental Impact Test
ISO 527	Plastics – Determination of Tensile Properties
ISO 760	Determination of Water – Karl Fischer Method
ISO 844	Rigid Cellular Plastics – Determination of Compression Properties
ISO 1817	Rubber, Vulcanized or Thermoplastic – Determination of the Effect of Liquids
ISO 1926	Rigid Cellular Plastics – Determination of Tensile Properties
ISO 14125	Fibre-Reinforced Plastic Composites – Determination of the Flexural Properties
ISO 14126	Fibre-Reinforced Plastic Composites – Determination of Compressive Properties in the In-Plane Direction
ISO 14129	Fibre-Reinforced Plastic Composites – Determination of the In-Plane Shear Strain Response, including the In-Plane Shear Modulus and Strength by the Tension Test Method
<u>DOT:</u>	
DOT FMVSS 302	Department of Transportation Motor Vehicle Safety Standard Flammability of Interior Materials
<u>FAA:</u>	
FAR 25.853	Airworthiness Standards: Transport Category Airplanes, Fire Protection, Compartment Interiors, Appendix F, Part I, IV, and V
<u>Boeing:</u>	
BSS 7230	Determination of Flammability Properties of Aircraft Materials
BSS 7238	Test Method for Smoke Generation by Materials on Combustion
BSS 7239	Test Method for Toxic Gas Generation by Materials on Combustion
BSS 7322	Boeing Specification Support Standard, State University California – Determination of Heat Release
<u>Airbus:</u>	
AITM 2.0002	Resistance of Materials When Tested According to the 12 s or 60 s Vertical Bunsen Burner Test
AITM 2.0003	Flammability of Non-metallic Materials, - Small Burner Test, Horizontal
AITM 2.0004	Flammability of Non-metallic Materials, - Small Burner Test, 45 degrees
AITM 2.0005	Flammability of Non-metallic Materials, - Small Burner Test, 60 degrees
AITM 2.0006	Determination of Heat Release and Heat Release Rate of Aircraft Materials
AITM 2.0007	Determination of Specific Optical Smoke Density of Component Parts or Sub-Assemblies of Aircraft Interior
AITM 2.0008	Determination of Specific Optical Smoke Density of Wire/Cable Insulation
AITM 2.0038	Flammability of Heat Shrinkable Tubing's, - Small Burner Test, 60 degrees
AITM 3.0005	Determination of Specific Gas Components of Smoke Generated by Component Parts or Sub-Assemblies of Aircraft Interior

Test Method: Test Title:

Military Standards:

MIL-STD-810 Environmental Engineering Considerations and Laboratory Tests:

Method 501 High Temperature
Method 502 Low Temperature
Method 507 Humidity

MIL-STD-202 Test Methods for Electronic and Electrical Component Parts:

Method 103 Humidity (Steady State)
Method 104 Immersion (Method A)
Method 108 Life at Elevated Ambient Temperature
Method 301 Dielectric Withstanding Voltage
Method 302 Insulation Resistance
Method 303 DC Resistance

SACMA (Suppliers of Advanced Composite Materials Association):

SRM 1-94 Compressive Properties of Oriented Fibre Resin Composites
SRM 2-94 Compression After Impact Properties of Oriented Fibre Resin Composites
SRM 3-94 Open-Hole Compression Properties of Oriented Fibre Resin Composites
SRM 4-94 Tensile Properties of Oriented Fibre Resin Composites
SRM 5-94 Open-Hole Tensile Properties of Fibre Resin Composites
SRM 6-94 Compressive Properties of Oriented Cross-Plied Fibre Resin Composites
SRM 7-94 In-Plane Shear Stress-Strain Properties of Oriented Fibre Resin Composites
SRM 8-94 Short Beam Shear Strength of Oriented Fibre Resin Composites
SRM 9-94 Tensile Properties of Oriented Cross-Plied Fibre Resin Composite
SRM 10R-94 Fiber Volume, Percent Resin Volume and Calculated Average Cured Ply Thickness of
Plied Laminates
SRM 11R-94 Environmental Condition in-Resin

Test Method:

Test Title:

Sikorsky

¹This accreditation covers testing performed at the main laboratory listed above, as well as the satellite laboratory listed below.

²This laboratory's scope contains wit

Accredited Laboratory

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