

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: July 31, 2026

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 the one satellite laboratory listed below, to perform the following tests on <u>adhesives</u>, <u>composites</u> and <u>laminates</u>, <u>printed</u> <u>boards</u> and <u>electrical insulating materials</u>, <u>elastomers</u>, <u>plastics</u> and <u>engineering thermoplastics</u>, <u>graphite</u> or <u>boron reinforced thermoplastics</u>, <u>metal matrix</u> <u>composites</u>, <u>graphite/epoxy</u>, <u>graphite/bismaleimide</u>, <u>polyimide/glass</u>, <u>epoxy/glass</u>, toughened epoxy systems and graphite aramid or boron reinforced epoxies, and similar materials:

Test Method:	<u>Test Title:</u>
ASTM B487	Test Method for Metal and Oxide Coating Thickness by Microscopical Examination of a Cross Section
ASTM C20	Standard Test Methods for Apparent Porosity, Water Absorption, Apparent
A511VI C20	Specific Gravity, and Bulk Density of Burned Refractory Brick and Shapes by
	Boiling Water
ASTM C271	Test Method for Density of Sandwich Core Materials
ASTM C273	Test Method for Shear Properties in Flatwise Plane of Flat Sandwich
1101111 02,0	Constructions or Sandwich Cores
ASTM C297	Test Method for Tensile Strength of Flat Sandwich Constructions in Flatwise
	Plane
ASTM C363	Test Method for Node Tensile Strength of Honeycomb Core Materials
ASTM C364	Test Method for Edgewise Compressive Strength of Flat Sandwich Constructions
ASTM C365	Test Methods for Flatwise Compressive Strength of Sandwich Cores
ASTM C373	Determination of Water Absorption and Associated Properties by Vacuum Method
	for Pressed Ceramic Tiles and Glass Tiles and Boil Method for Extruded Ceramic
	Tiles and Non-tile Fired Ceramic Whiteware Products
ASTM C393	Test Method for Flexural Properties of Flat Sandwich Constructions
ASTM C394	Standard Test Method for Shear Fatigue of Sandwich Core Materials
ASTM C1166	Test Method for Flame Propagation of Dense and Cellular Elastomeric Gaskets and Accessories
ASTM C1275	Monotonic Tensile Behavior of Continuous Fiber-Reinforced Advanced Ceramics
AG1W C1275	with Solid Rectangular Cross-Section Test Specimens at Ambient Temperature
ASTM C1359	Standard Test Method for Monotonic Tensile Strength Testing of Continuous
	Fiber-Reinforced Advanced Ceramics with Solid Rectangular Cross Section Test
	Specimens at Elevated Temperatures
ASTM C1360	Standard Practice for Constant-Amplitude, Axial, Tension-Tension Cyclic Fatigue
	of Continuous Fiber-Reinforced Advanced Ceramics at Ambient Temperatures
ASTM C1361	Standard Practice for Constant-Amplitude, Axial, Tension-Tension Cyclic Fatigue
	of Advanced Ceramics at Ambient Temperatures

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ASTM D150 Test Methods for A-C Loss Characteristics and Permittivity (Diclectric Constant) of Solid Electrical Insulating Materials ASTM D229 Rigid Sheet and Plate Materials Used for Electrical Insulation (Except Sections 4, 5, 6, 48, 61 - 74, 76, 82, 83) ASTM D256 Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics ASTM D257 Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics ASTM D257 Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics ASTM D257 Test Method for Rubber Property-Effect of Liquids (Section 16.3) ASTM D412 Test Method for Rubber Property-Effect of Liquids (Section 15 only) ASTM D471 Test Method for Rate of Burning and/or Extent and Time of Burning of Flexible Plastics in a Vertical Position (ASTM D568 Standard Test Method for Rubber Properties in Compression ASTM D575 ASTM D570 Test Methods for Rubber Properties in Compression ASTM D618 Conditioning of Plastics for Testing ASTM D621-64(88) Test Method for Rate of Burning and/or Extent and Time of Burning of Flexible Plastics for Testing ASTM D63 Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers - Die Bastics ASTM D64 Test Method for Tear Strength of Plastics ASTM D635 Test Method for Tear Strength	Test Method:	<u>Test Title:</u>
ASTM D229 Rigid Sheet and Plate Materials Used for Electrical Insulation (Except Sections 4, 5, 6, 48, 61 - 74, 76, 82, 83) ASTM D256 Test Methods for D-C Resistance or Conductance of Insulating Materials ASTM D277 Test Methods for D-C Resistance or Conductance of Insulating Materials ASTM D395 Rubber Property - Compression Set ASTM D412 Test Method for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers - Tension ASTM D471 Test Method for Rubber Property-Effect of Liquids (Section 15 only) ASTM D471 Test Method for Rate of Burning and/or Extent and Time of Burning of Flexible Plastics in a Vertical Position (ASTM D568 Standard Test Method for Vater Absorption of Plastics ASTM D570 ASTM D570 Test Method for Vater Absorption of Plastics ASTM D618 Conditioning of Plastics for Testing ASTM D624 Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers (Die B & C) ASTM D635 Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers (Die B & C) ASTM D646 Mass Per Unit Area of Paper and Paperboard of Aramid Papers (Basis Weight) (ASTM D645 ASTM D648 Test Method for Compressive Properties of Rigid Plastics ASTM D648 Test Method for Deflection Temperature of Plastics Under Flexural Load in	ASTM D150	
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	ASTM D1002	Test Method for Apparent Shear Strength of Single-Lap-Joint Adhesively

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Test Method:	Test Title:
ASTM D1043	Test Method for Stiffness Properties of Plastics as a Function of Temperature by Means of a Torsion Test
ASTM D1169	Test Method for Specific Resistance (Resistivity) of Electrical Insulating Liquids
ASTM D1238	Test Method for Flow Rates of Thermoplastics by Extrusion Plastometer (Method A)
ASTM D1298	Test Method for Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method
ASTM D1329	Test Method for Evaluating Rubber Property-Retraction at Lower Temperatures (TR Test)
ASTM D1414	Standard Test Methods for Rubber O-Rings (except D865, D573, D1415)
ASTM D1621	Test Method for Compressive Properties of Rigid Cellular Plastics
ASTM D1622	Test Method for Apparent Density of Rigid Cellular Plastics
ASTM D1623	Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics
ASTM D1708	Test Method for Tensile Properties of Plastics by Use of Microtensile Specimens
ASTM D1781	Test Method for Climbing Drum Peel for Adhesives
ASTM D1824	Test Method for Apparent Viscosity of Plastisols and Organosols at Low Shear Rates
ASTM D1876	Test Method for Peel Resistance of Adhesives (T-Peel Test)
ASTM D1938	Standard Test Method for Tear-Propagation Resistance (Trouser Tear) of Plastic
	Film and Thin Sheeting by Single-Tear Method
ASTM D2095	Test Method for Tensile Strength of Adhesives by Means of Bar and Rod Specimens
ASTM D2126	Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging
ASTM D2240	Test Method for Rubber Property-Durometer Hardness (Shore A & D)
ASTM D2295	Test Method for Strength Properties of Adhesives in Shear by Tension Loading at Elevated Temperatures (Metal-to-Metal)
ASTM D2344	Test Method for Apparent Interlaminar Shear Strength of Parallel Fiber Composites by Short-Beam Method
ASTM D2520	Test Method for Complex Permittivity (Dielectric Constant) of Solid Electrical Insulating Materials at Microwave Frequencies and Temperatures to 1650
ASTM D2557	Test Method for Tensile-Shear Strength of Adhesives in the Subzero Temperature Range from (-267.8 to -55) °C or (-450 to -67) °F
ASTM D2583	Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor
ASTM D2584	Test Method for Ignition Loss of Cured Reinforced Resins
ASTM D2734	Void Content of Reinforced Plastics
ASTM D2857	Standard Practice for Dilute Solution Viscosity of Polymers
ASTM D2919	Test Method for Determining Durability of Adhesive Joints Stressed in Shear by Tension Loading
ASTM D3039	Test Method for Tensile Properties of Polymer Matrix Composite Materials
ASTM D3163	Test Method for Determining Strength of Adhesively Bonded Rigid Plastic Lap- Shear Joints in Shear by Tension Loading
ASTM D3164	Test Method for Strength Properties of Adhesively Bonded Plastic Lap-Shear Sandwich Joints in Shear by Tension Loading
ASTM D3165	Test Method for Strength Properties of Adhesives in Shear by Tension Loading of Single-Lap-Joint Laminated Assemblies

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Test Method:	<u>Test Title:</u>
ASTM D3167 ASTM D3171	Test Method for Floating Roller Peel Resistance of Adhesives Test Method for Fiber Content of Resin-Matrix Composites by Matrix Digestion (Method A, B, and G)
ASTM D3330 ASTM D3359	Test Method for Peel Adhesion of Pressure-Sensitive Tape Test Methods for Measuring Adhesion by Tape Test
ASTM D3386-00	Test Method of Coefficient of Linear Thermal Expansion of Electrical Insulating Materials (Withdrawn 2005)
ASTM D3410/3410M	Test Method for Compressive Properties of Polymer Matrix Composite Materials with Unsupported Gage Section by Shear Loading
ASTM D3417-99	Test Method for Enthalpies of Fusion and Crystallization of Polymers by Differential Scanning Calorimetry (DSC) (Withdrawn 2004)
ASTM D3418	Test Method for Transition Temperatures of Polymers by Thermal Analysis
ASTM D3433	Standard Test Method for Fracture Strength in Cleavage of Adhesives in Bonded Metal Joints
ASTM D3479	Test Method for Tension-Tension Fatigue of Oriented Fiber, Resin Matrix Composites
ASTM D3518	Practice for In-Plane Shear Stress-Strain Response of Unidirectional Polymer Matrix Composite Materials by Tensile Test of ±45 Laminate
ASTM D3528	Test Method for Strength Properties of Double Lap Shear Adhesive Joints by Tension Loading
ASTM D3529	Test Method for Resin Solids Content of Epoxy-Matrix Prepreg by Matrix Dissolution
ASTM D3530	Test Method for Volatiles Content of Epoxy-Matrix Prepreg
ASTM D3531	Test Method for Resin Flow of Carbon Fiber-Epoxy Prepreg
ASTM D3532	Test Method for Gel Time of Carbon Fiber-Epoxy Prepreg
ASTM D3552	Standard Test Method for Tensile Properties of Fiber Reinforced Metal Matrix Composites
ASTM D3759	Test Method for Breaking Strength and Elongation of Pressure Sensitive Tape
ASTM D3776	Standard Test Method for Mass Per Unit Area (Weight) of Fabric
ASTM D3846	Test Method for In-Plane Shear Strength of Reinforced Plastics
ASTM D3850	Test Method for Rapid Thermal Degradation of Solid Electrical Insulating Materials by Thermogravimetric Method
ASTM D3895	Standard Test Method for Oxidative-Induction Time of Polyolefins by Differential Scanning Calorimetry
ASTM D3916	Standard Test Method for Tensile Properties of Pultruded Glass-Fiber-Reinforced Plastic Rod
ASTM D4060	Standard Test Method for Abrasion Resistance of Organic Coating by the Taber
ASTM D4065	Abraser
	Standard Practice for Plastics: Dynamic Mechanical Properties: Determination and
	Report of Procedures
ASTM D4255	In-Plane Shear Properties of Polymer Matrix Composite Materials by the Rail Shear Method
ASTM D4475	Test Method for Apparent Horizontal Shear Strength of Pultruded Reinforced Plastic Rods by the Short-Beam Method
ASTM D4496	Test Method for D-C Resistance or Conductance of Moderately Conductive Materials
ASTM D4591	Test Method for Determining Temperatures and Heats of Transitions of Fluoropolymers by Differential Scanning Calorimetry
ASTM D4804	Standard Test Method for Determining the Flammability Characteristics of Nonrigid Solid Plastics
ASTM D4812	Standard Test Method for Unnotched Cantilever Beam Impact Resistance of Plastics

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Test Method:	Test Title:	
ASTM D5024 ASTM D5026 ASTM D5035 ASTM D5045	Test Method for Plastics: Dynamic Mechanical Properties: In Compression Test Method for Plastics: Dynamic Mechanical Properties: In Tension Breaking Force and Elongation of Textile Fabrics (Strip Method) Standard Test Method for Plane-Strain Fracture Toughness and Strain Energy Release Rate of Plastic Materials	
ASTM D5083	Tensile Properties of Reinforced Thermosetting Plastics Using Straight Sided Specimens	
ASTM D5229	Standard Test Method for Moisture Absorption Properties and Equilibrium Conditioning of Polymer Matrix Composite Materials	
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 (Tup or Falling Mass)	
ASTM D5656	Test Method for Thick Adherend Metal Lap-Shear Joints for Determination of the Stress-Strain Behavior of Adhesives in Shear by 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 Response of Polymer Matrix Composite Laminates	
ASTM D6110	Test Method for Determining the Charpy Impact Resistance of Notched Specimens of Plastics	
ASTM D6264	Test Method for Measuring the Damage Resistance of a Fiber-Reinforced Polymer-Matrix Composite to a Concentrated Quasi-Static Indentation Force	
ASTM D6267	Standard Test Method for Apparent Viscosity of Hydrocarbon Resins at Elevated Temperatures Test Method for Flexural Properties of Unreinforced and Reinforced Plastics and	
ASTM D6272	Electrical Insulating Materials by Four-Point Bending	
ASTM D6413	Flame Resistance of Textiles (Vertical Test)	
ASTM D6415	Test Method for Measuring the Curved Beam Strength of a Fiber Reinforced Polymer Composite	
ASTM D6484	Test Method for Open-Hole Compressive Strength of Polymer Matrix Composite Laminates	
ASTM D6641	Test Method for Determining the Compressive Properties of Polymer Matrix Composite Laminate Using a Combined Loading Compression (CLC) Test Fixture	
ASTM D6671	Mixed Mode I - Mode II Interlaminar Fracture Toughness of Unidirectional Fiber Reinforced Polymer Matrix Composites	
ASTM D6742	Filled Hole Tension and Compression Testing of Polymer Matrix Composites	
ASTM D6790	Standard Test Method for Determining Poisson's Ratio of Honeycomb Cores	
ASTM D6790	90 Degree Peel Resistance of Adhesives	
ASTM D7028	Test Method for Glass Transition Temperature (DMA Tg) of Polymer Matrix Composites by Dynamic Mechanical Analysis (DMA)	
ASTM D7078	Test Method for Shear Properties of Composite Materials by V-Notched Rail Shear Method	
ASTM D7136	Test Method for Measuring the Damage Resistance of a Fiber-Reinforced Polymer Matrix Composite to a Drop-Weight Impact Event	
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Test Method:	<u>Test Title:</u>
ASTM D7248	Standard Test Method for Bearing/Bypass Interaction Response of Polymer Matrix Composite Laminates Using 2-Fastener Specimens
ASTM D7249	Test Method for Facing Properties of Sandwich Constructions by Long Beam Flexure
ASTM D7250 ASTM D7264	Practice for Determining Sandwich Beam Flexural and Shear Stiffness Test Method for Flexural Properties of Polymer Matrix Composite Materials
ASTM D7291	Test Method for Through-Thickness "Flatwise" Tensile Strength and Elastic Modulus of a Fiber-Reinforced Polymer Matrix Composite Material
ASTM D7332	Test Method for Measuring the Fastener Pull-Through Resistance of a Fiber- Reinforced Polymer Matrix Composite
ASTM D7426	Test Method for Assignment of the DSC Procedure for Determining Tg of a Polymer or an Elastomeric Compound (Withdrawn 2022)
ASTM D7565	Determining Tensile Properties of Fiber Reinforced Polymer Matrix Composites Used for Strengthening of Civil Structures
ASTM D7615/ASTM D7615M	Standard Practice for Open-Hole Fatigue Response of Polymer Matrix Composite Laminates
ASTM D7616	Apparent Overlap Splice Shear Strength Properties of Wet Lay-Up Fiber- Reinforced Polymer Matrix Composites Used for Strengthening Civil Structures
ASTM D7766	Damage Resistance Testing of Sandwich Constructions
ASTM D7791	Uniaxial Fatigue Properties of Plastics
ASTM D7905	Standard Test Method for Determination of the Mode II Interlaminar Fracture Toughness of Unidirectional Fiber-Reinforced Polymer Matrix Composites
ASTM D7956	Standard Practice for Compressive Testing of Thin Damaged Laminates Using a Sandwich Long Beam Flexure Specimen
ASTM D8066	Standard Practice Unnotched Compression Testing of Polymer Matrix Composite Laminates
ASTM D8387	Standard Test Method for High Bypass - Low Bearing Interaction Response of Polymer Matrix Composite Laminates
ASTM E3	Practice for Preparation of Metallographic Specimens
ASTM E595	Standard Test Method for Total Mass Loss and Collected Volatile Condensable Materials from Outgassing in a Vacuum Environment
ASTM E662 ASTM E831	Test Method for Specific Optical Density of Smoke Generated by Solid Materials Test Method for Linear Thermal Expansion of Solid Materials by
ASTM E990	Thermomechanical Analysis Standard Specifications for Core-Splice Adhesive for Honeycomb Sandwich
ASTM E1131	Structural Panels (Except Water Migration) Test Method for Compositional Analysis by Thermogravimetry
ASTM E1151 ASTM E1252	Standard Practice for General Techniques for Obtaining Infrared Spectra for
	Qualitative Analysis
ASTM E1269	Determining Specific Heat Capacity by DSC
ASTM E1356	Test Method for Glass Transition Temperatures by Differential Scanning Calorimetry or Differential Thermal Analysis (DSC Only)
ASTM E1545	Test Method for Assignment of the Glass Transition Temperature by Thermomechanical Analysis
ASTM E1640	Test Method for Assignment of the Glass Transition Temperature by DMA
ASTM E1952	Standard Test Method for Thermal Conductivity and Thermal Diffusivity by Modulated Temperature Differential Scanning Calorimetry
ASTM E2004	Test Method for Facing Cleavage of Sandwich Panels

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Test Method:	Test Title:
ASTM F814-84b	Test Method for Specific Optical Density of Smoke Generated by Solid Materials
BS EN 2564	for Aerospace Applications (Withdrawn 1995) Aerospace Series-Carbon Fibre Laminates – Determination of Fibre, Resin, and
BS EN 6032	Void Contents Aerospace Series – Fibre Reinforced Plastics – Test Method- Determination of the Glass Transition Temperatures
BS EN 6033	Aerospace Series – Carbon Fibre Reinforced Plastics - Test Method - Determination of Interlaminar Fracture Toughness Energy - Model I - GIC
BS EN 6034	Aerospace Series - Carbon Fibre Reinforced Plastics - Test Method - Determination of Interlaminar Fracture Toughness Energy - Model II - GIIC
BS EN 6040	Aerospace Series - Non-Metallic Materials - Test Method - Analysis of Thermoset Systems by High Performance Liquid Chromatography (HPLC) - Qualitative Only
ISO 178 ISO 179	Plastics - Determination of Flexural Properties Plastics - Determination of Charpy Impact Properties - Part 1: Non-instrumental Impact Test
ISO 527 ISO 844	Plastics - Determination of Tensile Properties Rigid Cellular Plastics - Determination of Compression Properties
ISO 1817 ISO 1926	Rubber, Vulcanized or Thermoplastic - Determination of the Effect of Liquids 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 ±45 Tension Test Method
Test Method:	<u>Test Title:</u>
DOT:	
DOT FMVSS 302	Department of Transportation Motor Vehicle Safety Standard Flammability of Interior Materials
FAA:	
FAR 25.853	Airworthiness Standards: Transport Category Airplanes, Fire Protection, Compartment Interiors, Appendix F, Part I, IV, and V
Boeing:	
BSS 7230 BSS 7238 BSS 7239 BSS 7322	Determination of Flammability Properties of Aircraft Materials Test Method for Smoke Generation by Materials on Combustion Test Method for Toxic Gas Generation by Materials on Combustion Boeing Specification Support Standard, Ohio State University Calorimeter Heat Release

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Test Method: Test Title:

Airbus:

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

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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 Fiber-Resin Composites
SRM 2-94	Compression After Impact Properties of Oriented Fiber-Resin Composites
SRM 3-94	Open-Hole Compression Properties of Oriented Fiber-Resin Composites
SRM 4-94	Tensile Properties of Oriented Fiber-Resin Composites
SRM 5-94	Open-Hole Tensile Properties of Fiber-Resin Composites
SRM 6-94	Compressive Properties of Oriented Cross-Plied Fiber-Resin Composites
SRM 7-94	In-Plane Shear Stress-Strain Properties of Oriented Fiber-Resin Composites
SRM 8-94	Short Beam Shear Strength of Oriented Fiber-Resin Composites
SRM 9-94	Tensile Properties of Oriented Cross-Plied Fiber-Resin Composite
SRM 10R-94	Fiber Volume, Percent Resin Volume and Calculated Average Cured Ply
	Thickness of Plied Laminates
SRM 11R-94	Environmental Conditioning of Composite Test Laminates
SRM 18R-94	Glass Transition Temperature (Tg) Determination by DMA
SRM 21R-94	Fluid Resistance Evaluating of Composite Materials
SRM 22R-94	Determining the Resin Flow of Preimpregnated "B" Staged Material
SRM 23R-94	Determination of Resin Content and Fiber Areal Weight of Thermoset Prepreg
	with Destructive Techniques
SRM 25R-94	Onset Temperature and Peak Temperature for Composite Resin Systems Using
	Differential Scanning Calorimetry (DSC)

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Test Method:	Test Title:	
<u>Sikorsky</u>		
SS9152/PP101	Determination of Glass Transition Temperature by DMA, Single Cantilever Method	
SAE (Society of Automotive Engineers)		
SAE J2253	Test Procedures for Automotive Structural Composite Materials (Formerly ACCM-T-02)	
Section 8.2	Specific Gravity	
Section 8.3 – 8.5	Resin / Filler / Void Content	
Section 8.6	Panel Thickness	
Section 9.2	DMA	
Section 10	Tensile Testing	
Section 11	Compressive Testing	
Section 12	Shear Testing	

The laboratory is only accredited for the test methods listed above. The accredited test methods are used in determining compliance with the material specifications listed below. The inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications nor does it confer accreditation for the method(s) embedded within the specifications.

<u>Specification /</u> <u>Standard:</u>	Specification / Standard Title:
ASTM B987	Standard Specification for Carbon Fiber Composite Core (CFCC/TS) for Use in Overhead Electrical Conductors
ASTM D876	Electrical Insulation
ASTM D1414	Test Methods for Rubber O-Rings
ASTM D1675	Standard Test Methods for Polyetrafluothylene Tubing
ASTM D4745	Standard Specification for Filled Compounds of Polytetrafluoroethylene (PTFE) Molding and Extrusion Materials
ASTM D4762	Standard Guide for Testing Polymer Matrix Composite Materials
ABD 0031	Fireworthiness Requirements Pressurized Section of Fuselage
BOEING D6-51377	Airplane Fire Worthiness Design Criteria-Pressurized Compartments
IPC-CC-830	Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies
MIL-I-46058	General Specification for Insulating Compound, Electrical
	(For Coating Printed Circuit Assemblies) (Except Fungus)
MMM-A-132	Federal Specification for Adhesives, Heat Resistant, Airframe Structural, Metal- to-Metal
NASA 1092	Standard Tests for Toughened Resin Composites
NASA 1142	NASA / Aircraft Industry Standard Specification for Graphite Fiber-Toughened Thermoset Composite Materials

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ELEMENT LOS ANGELES 15062 Bolsa Chica Huntington Beach, CA 92649 Christopher Kelley Phone: 818 247 4106

Test Method:	Test Title:
ASTM C394 ASTM C1275	Standard Test Method for Shear Fatigue of Sandwich Core Materials Standard Test Method for Monotonic Tensile Behavior of Continuous Fiber- Reinforced Advanced Ceramics with Solid Rectangular Cross-Section Test Specimens at Ambient Temperature
ASTM C1337	Standard Test Method for Creep and Creep Rupture of Continuous Fiber- Reinforced Advanced Ceramics Under Tensile Loading at Elevate Temperatures
ASTM C1359	Standard Test Method for Monotonic Tensile Strength Testing of Continuous Fiber-Reinforced Advanced Ceramics with Solid Rectangular Cross Section Test Specimens at Elevated Temperatures
ASTM C1360	Standard Practice for Constant-Amplitude, Axial, Tension-Tension Cyclic Fatigue of Continuous Fiber-Reinforced Advanced Ceramics at Ambient Temperatures
ASTM C1361	Standard Practice for Constant-Amplitude, Axial, Tension-Tension Cyclic Fatigue of Advance Ceramics at Ambient Temperatures
ASTM D3039 ASTM D3166	Test Method for Tensile Properties of Polymer Matrix Composite Materials Standard Test Method for Fatigue Properties of Adhesives in Shear by Tension Loading (Metal/Metal)
ASTM D3479 ASTM D7615 /	Test Method for Tension-Tension Fatigue of Oriented Fiber, Resin Matrix Composites
ASTM 7615M ASTM D7791	Standard Practice for Open-Hole Fatigue Response of Polymer Matrix Composite Laminates Uniaxial Fatigue Properties of Plastics
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Accredited Laboratory

A2LA has accredited

ELEMENT LOS ANGELES Duarte, CA

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 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 19th day of September 2024.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council Certificate Number 0096.01 Valid to July 31, 2026