plastics and engineering thermoplastics, graphite boron reinforced thermoplastics, metal matrix composites, graphite/epoxy, graphite/bismaleimi polyimide/glass, epoxy/glass, toughened epoxy systems and graphite aramid or boron reinforced epoxies, and similar materials:

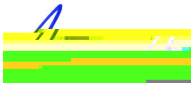
Test Method:	Test Title:
ASTM B487	Test Method for Metal and Oxide Coating Thickness by Microscopical Examination of a Cross Section
ASTM C20	Standard Test Methods for Apparent Porosity, Water Absorption, Apparent Specific Gravity, and Bulk Density of Burned Refractory Brick and Shapes by Boiling Water
ASTM C271	Test Method for Density of Sandwich Core Materials
ASTM C273	Test Method for Shear Properties in Flatwise Plane of Flat Sandwich 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	St.9.002 Tc - d thod for Flexura1(o002hearalat)ahod1l55NC t e3od13MNhaorc56.467.5
ASTM C1359	r-Reinforced Advanced Ceramics with Solid Rectangular Cross-Section Test Specimens at Ambient Temperature

Test Method:	Test Title:
ASTM D150	Test Methods for A-C Loss Characteristics and Permittivity (Dielectric 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 D-C Resistance or Conductance of Insulating Materials
ASTM D297	Test Method for Rubber Products - Chemical Analysis (Section 16.3)
ASTM D395	Rubber Property - Compression Set
ASTM D412	Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermop

Test Method:	Test Title:
ASTM D1043	Test Method for Stiffness Properties of Plastics as a Function of Temperature by Means of a Torsion Tes

Test Method:	Test Title:
ASTM D3167	Test Method for Floating Roller Peel Resistance of Adhesives
ASTM D3171	Test Method for Fiber Content of Resin-Matrix Composites by Matrix Digestion (Method A, B, and C)
ASTM D3330	Test Method for Peel Adhesion of Pressure-Sensitive Tape
ASTM D3359	Test Methods for Measuring Adhesion by Tape Test
ASTM D3386-00	Test Method of Coefficient of Linear Thermal Expansion of Electrical Insulating Materials(

Test Method:	Test Title:
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	Practice for Determining Sandwich Beam Flexural and Shear Stiffness
ASTM D7264	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	Test Method for Specific Optical Density of Smoke Generated by Solid Materials
ASTM E831	Test Method for Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis
ASTM E990	Standard Specifications for Core-to-Skin Adhesive for Honeycomb Sandwich Structural Panels (Except Water Migration)
ASTM E1131	Test Method for Compositional Analysis by Thermogravimetry
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



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 Interio
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 Interio

Test Method:	Test Title:

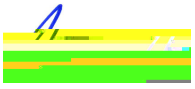
Military Standards:

MIL-STD-810	Environmental Engineering C

Test Method:	Test Title:
Sikorsky	
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.

Specification / Standard:	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 Polytetrafluoethylene 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



Accredited Laborator[redacted]

A2LA has accredited

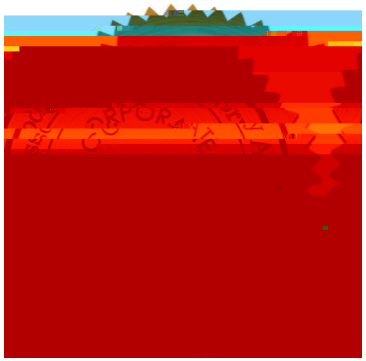
ELEMENT LOS ANGELES

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

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