



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

Centro de Ingeniería y Desarrollo Industrial (CIDESI)

Carretera Estatal 200 Querétaro - Tequisquiapan, KM 23, #22547, Parque Aeroespacial de Querétaro; localidad Galeras, Querétaro, México. C.P. 76270

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Mechanical and Chemical Testing (As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Initial Accreditation Date:

September 07, 2019

Issue Date:

November 19, 2021

Expiration Date:

January 31, 2024

Accreditation No.:

101587

Certificate No.:

L21-701

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjllabs.com



Certificate of Accreditation: Supplement

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Contact Name: Ma. Esthela Gonzalez Phone: 442-672-7501

Accreditation is granted to the facility to perform the following testing:

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE (WHERE APPROPRIATE) AND DETECTION LIMIT
Mechanical ^F	Adhesives for Bonding Materials	Lap Shear Joint Adhesive Strength	ASTM D1002	0.5 kN to 90 kN Precision: 1 N
	Metals, Adhesives, Polymers and Composites	Thickness	PR-TM-FQ-009 (Internal Procedure) Zeiss Optical Stereoscope	30 µm to 1 mm Precision: 1 µm
	Solids and Adhesives	Porosities Control	PR-TM-FQ-009 (Internal Procedure) Zeiss Optical Stereoscope	30 µm to 1 mm Precision: 1 µm
	Metals and Alloys	Force Controlled Axial Fatigue Testing	ASTM E466	1 kN to 90 kN
		Strain Controlled Fatigue Testing	ASTM E606 Force Machine Extensometer	1 kN to 90 kN +/- 0.1 mm/mm Room Temperature to: 900 °C
	Polymers	Glass Transition Temperature (T _g) by Dynamic Mechanical Analysis	ASTM E1640	25 °C to 300 °C Precision: 0.1 °C
	Polymer Matrix Composites		ASTM D7028	25 °C to 300 °C Precision: 0.1 °C
	Polymer Matrix Composites Metal ^{FO}	Determination of Peel Resistance of High-Strength Adhesive Bonds – Floating – Roller Method	ISO 4578 MTS Universal Equipment Micrometer Grips Fixtures Vernier	5 N to 90 kN Precision: 1 N
	Metal ^{FO}	Tension Strength	ASTME8 MTS Universal Equipment Micrometer Vernier Extensometer	1 kN to 90 kN Precision: 1 N
			Elevated Temperature Tension Tests of Metallic Material	ASTM E21 MTS Universal Equipment Micrometer Vernier Extensometer



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Chemical ^F	Solid and Liquids Organic Materials	Fourier Transform Infrared Spectroscopy (FTIR)	ASTM E1252	545 cm ⁻¹ to 3 082 cm ⁻¹ Precision: 0.01 cm ⁻¹
	Organic Materials	Determination of the Glass Transition Temperature (T _g) by Differential Scanning Calorimetry	ASTM E1356 ISO 11357-2	-90 °C to 400 °C (with Aluminum Pans) Precision: 0.1 °C / 0.1 J
	Organic and Inorganic Materials	Temperatures and Enthalpies of Fusion and Crystallization	ASTM E793 ISO 11357-3	-90 °C to 400 °C (with Aluminum Pans) Precision: 0.1 °C / 0.1 J
		Determination of Characteristic Reaction- Curve Temperatures/ Times, Enthalpy of Reaction and Degree of Conversion (Scanning Method)	ISO 11357-5	-90 °C to 400 °C (with Aluminum Pans) Precision: 0.1 °C / 0.1 J
	Composite Materials	Constituent Content	ASTM D3171 Test Method I Procedure G Analytical Balance Muffle Dissector	Up to 110 g Precision: 0.000 1 g
		Constituent Content- Acid Digestion	ASTM D3171 Test Method I Procedure B Analytical Balance Dissector Thermometer	Up to 110 g Precision: 0.000 1 g
	Polymer Matrix and High Modulus Fiber Composites	Density	ASTM D792 Analytical Balance Thermometer Dissector	Up to 110 g Precision: 0.000 1 g
	Aerospace Interior Materials	Flame Resistance, Horizontal Test	FAR 25 Appendix F Part I (b) 5	15 Seconds Horizontal Bunsen Burner 0 s to 240 s Precision: 0.1 s 0 mm to 254 mm Precision: 0.5 mm



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Chemical ^{FO}	Materials used in the Occupant Compartments of Motor Vehicles	Burn Resistance (Burn Rate)	FMVSS 302 Flammability Chamber with Horizontal Support Chronometer, Ruler, Flame Height Gage Thermo-Hygrometer	15 Seconds Horizontal Bunsen Burner Precision: 0.1 s 0 mm to 280 mm Precision: 0.5 mm

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this testing at its fixed location.
2. The presence of a superscript FO means that the laboratory performs testing of the indicated parameter both at its fixed location and onsite at customer locations. Example: Outside Micrometer^{FO} would mean that the laboratory performs this testing at its fixed location and onsite at customer locations.

