



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SCHAP LABORATORY SERVICES, LLC
17309 Taft Road, Unit 5
Spring Lake, MI 46456
Mark Yoder Phone: 616 846 6530

MECHANICAL

Valid To: September 30, 2022

Certificate Number: 3611.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of tests on textiles, leather, rubber, and fabrics as well as the calibrations listed below:

<u>Tests</u>	<u>Test Methods^{1,2}</u>
Seam Fatigue (Except Sewing)	Ford FLTM BN 106-02; GMW3405; Nissan M0154 (Sec. 17), M0602 (Sec. 14); TSL 5100G (Sec. 4.22), 5101G (Sec. 3.7)
Cold Crack Resistance	LP-463KB-28-01 (Method A – Cold Fold), LP-463KB-28-01 (Method C – Pinch Fold); TSL 5100G (Sec. 4.29)
Flex Bally Flex	ASTM D6182; ISO 5402 (<i>Except Wet</i>); TSL 5101G (Sec 3.14.1, Method A)
Newark Flex – “W” Flex	ASTM D2097; Ford FLTM BN 102-02; GM9226P; TSL 5101G (Sec. 3.14.2, Method B)
Rubbing Abrasion Gakushin Colorfastness	JIS L0849 (Type II), L1084 (Sec. 8.5.3, Method 45R); Nissan M0154 (Sec. 18.5, 29, 30), M0155 (Sec. 16, 19, 20, 21), M0602 (Sec. 20, 21, 22, 23, 24); TSL 5100G (Sec. 4.8.1. Method A), 5101G (Sec. 3.19.1, Method A)
Wyzenbeek	ASTM D4157; Chrysler LP-463KB-06-01, LP-463KC-04-02; Procedure I and II; GM9082P (Withdrawn 2012) ² ;

Tests

Test Methods^{1,2}

Rubbing Abrasion (Continued)	SAE J948 (Sec. 4), J1530 (Sec. 5)
Wyzenbeek	TSL 5101G (Sec. 3.9.2, Method B, Sec 3.9.4, Method D, Sec 3.10.2 Method B, 3.10.4, Method D)
Veslic Colorfastness	ISO 11640 (<i>Except Sec. 6.3, 6.4, 7.8</i>)
Martindale	ISO 12947-2,12945-2
Impact	
Resistance to Cold Crack	GMW 14126
Foams	
Indentation Force Deflection (IFD)	ASTM D3574 B1
Indentation Residual Gauge Length	ASTM D3574 B2
Compression	ASTM D3574 C
Tensile	ASTM D3574 E
Tear Resistance	ASTM D3574 F
Fatigue	ASTM D3574 I3, I5
Hysteresis Loss	ASTM D3574 N (Procedure A)

CALIBRATION^{6, 7}

I. Dimensional Testing/Calibration

Parameter/Equipment	Range	CMC ^{3, 5} (±)	Comments
Length 1D ⁴ – Measure	Up to 6 in	0.005 in	Caliper

II. Mechanical

Parameter/Equipment	Range	CMC ^{3, 5} (±)	Comments
Mass – Measure	Up to 200 kg	0.13 kg	Scales
Force – Measure	Up to 10 kgf	0.38 N	Force gage
Speed – Measure	(5 to 99 999) RPM	0.34 RPM	Tachometer

III. Thermodynamic

Parameter/Equipment	Range	CMC ^{3, 5} (±)	Comments
Temperature – Measure	Up to 110 °C	0.022 °C	Fluke 1560 and thermistor probes

¹ The laboratory is only accredited for the test methods listed. 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.

² This 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.

³ Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent

expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

⁴ This laboratory meets R205 – *Specific Requirements: Calibration Laboratory Accreditation Program* for the types of dimensional tests listed above and is considered equivalent to that of a calibration certificate.

⁵ The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.

⁶ This scope meets A2LA's *P112 Flexible Scope Policy*.

⁷ This laboratory offers commercial dimensional testing and calibration services where noted.



Accredited Laboratory

A2LA has accredited

SCHAP LABORATORY SERVICES, LLC

Spring Lake, MI

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 laboratory also meets the requirements of any additional program requirements in the Mechanical field. 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 15th day of January 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3611.01
Valid to September 30, 2022
Revised August 31, 2022

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