



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

SCHAP LABORATORY SERVICES, LLC
17309 Taft Road, Unit 5
Spring Lake, MI
Erik Johnson Phone: 616 846 6530

MECHANICAL

Valid To: June 30, 2018

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 tests on textiles, leather, rubber, and fabrics:

<u>Tests</u>	<u>Test Methods¹</u>
Fatigue 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)
Flex Bally Flex	ASTM D6182; ISO 5402 (Except Wet); TSL 5101G (Sec 3.14.1)
Flex Test – Newark Flex – “W” Flex	ASTM D2097; Ford FLTM BN 102-02; GM9226P (Withdrawn 2011) ² ; TSL 5101G (Sec. 3.14.2)
Hardness, Durometer (Shore A)	ASTM D2240
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), 5101G (Sec. 3.19.1)
Wyzenbeek	ASTM D4157; Chrysler LP-463KB-06-01, LP-463KC-04-02; GM9082P (Withdrawn 2012) ² ; SAE J948 (Sec. 4), J1530 (Sec. 5); TSL 5101G (Sec. 3.9.2, 3.9.4, 3.10.2, 3.10.4)
Rubbing Abrasion (Continued) Veslic Colorfastness	ISO 11640 (Except Sec. 6.3, 6.4)

CALIBRATION³

I. Dimensional Testing/Calibration⁵

Parameter/Equipment	Range	CMC ⁴ (±)	Comments
Length – 1D	Up to 6 in	0.005 in	Caliper

II. Mechanical

Parameter/Equipment	Range	CMC ⁴ (±)	Comments
Mass	Up to 2 kg Up to 220 kg	0.38 g 0.13 kg	Scales
Force	Up to 10 kg	0.13 kgf	Force gage
Speed	(5 to 99 999) RPM	0.34 rpm	Tachometer

III. Thermodynamic

Parameter/Equipment	Range	CMC ⁴ (±)	Comments
Temperature (Measure)	Up to 110 °C	0.022 °C	Fluke 1560 & thermistor probes

¹ 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.

ASTM D3597
GM2756M

² This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.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 This laboratory offers commercial calibration services and meets R205 – *Specific Requirements: Calibration Laboratory Accreditation Program* for the calibrations listed.

⁴ 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.

⁵ 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.





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 17025:2005 *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 8 January 2009*).

Presented this 29th day of July 2016.



A handwritten signature in blue ink, appearing to read 'J. C. Burt'.

Senior Director of Quality and Communications
For the Accreditation Council
Certificate Number 3611.01
Valid to June 30, 2018

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