



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

SCHAP LABORATORY SERVICES, LLC  
17309 Taft Road, Unit 5  
Spring Lake, MI  
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MECHANICAL

Valid To: June 30, 2020

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 Methods<sup>1</sup></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)
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)
Flex Test – Newark Flex – “W” Flex	ASTM D2097; Ford FLTM BN 102-02; TSL 5101G (Sec. 3.14.2)
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Wyzenbeek	ASTM D4157; Chrysler LP-463KB-06-01, LP-463KC-04-02; Procedure I and II GM9082P (Withdrawn 2012) <sup>2</sup> ; SAE J948 (Sec. 4), J1530 (Sec. 5);

<u>Tests</u>	<u>Test Methods<sup>1</sup></u>
Rubbing Abrasion (Continued) Wyzenbeek	TSL 5101G (Sec. 3.9.2, 3.9.4, 3.10.2, 3.10.4)
Veslic Colorfastness Martindale	ISO 11640 ( <i>Except Sec. 6.3, 6.4, 7.8</i> ) ISO 12947-2 ISO 12945-2
 Impact	
Resistance to Cold Crack	GMW 14126
 Foam	
Indentation Force Deflection Test— Specified Deflection (IFD)	ASTM D3574 B <sub>1</sub>
Indentation Residual Gauge Length Test— Specified Force (IRGL)	ASTM D3574 B <sub>2</sub>
Compression Force Deflection Test	ASTM D3574 C
Dynamic Fatigue Test, Roller Shear	ASTM D3574 I <sub>2</sub>
Dynamic Fatigue Test, Constant Force Pounding	ASTM D3574 I <sub>3</sub>
Dynamic Fatigue Test, Constant Deflection Pounding	ASTM D3574 I <sub>5</sub>
Hysteresis Loss of Foams	ASTM D3574 N Procedure A

## CALIBRATION<sup>3</sup>

### I. Dimensional Testing/Calibration

Parameter/Equipment	Range	CMC <sup>4</sup> (±)	Comments
Length – 1D <sup>5</sup>	Up to 6 in	0.005 in	Caliper

### II. Mechanical

Parameter/Equipment	Range	CMC <sup>4</sup> (±)	Comments
Mass	Up to 2 kg Up to 220 kg	0.80 g 0.13 kg	Scales
Force	Up to 10 kgf	0.13 kgf	Force gage
Speed	(5 to 99 999) RPM	0.34 rpm	Tachometer

### III. Thermodynamic

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

<sup>1</sup> 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

<sup>2</sup> 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.

<sup>3</sup> This laboratory offers commercial calibration services and meets R205 – *Specific Requirements: Calibration Laboratory Accreditation Program* for the calibrations listed.

<sup>4</sup> 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.

<sup>5</sup> 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 R205 – *Specific Requirements: Calibration Laboratory Accreditation Program*. 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 11<sup>th</sup> day of June 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 3611.01  
Valid to June 30, 2020

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