

Material Testing Services

Schap Laboratory Services, LLC. has the capability to perform a number of ISO 17025 accredited tests for Material Testing using the equipment and standards listed on the following pages. We can perform specific tests, help with any testing back-log, or help you meet the requirements of Interlaboratory, Round Robin, and comparative testing programs. We also have the capabilities to perform a number of non-accredited test methods.

ISO 17025 Accredited Testing Methods

- **Fog Testing**

Fog Testing:

Determination of the Fogging Characteristics of Interior Automotive Materials

SAE J1756; GMW3235; LP-463DB-12-01; TSM0503; PV 3010; DIN 75201; DIN EN ISO 17071; MS 300-54; NES M0161; HES D6508; ISO 6452
(Photometric and Gravimetric)

Gloss

ASTM D523



- **Abrasion Testing**

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); HONDA 8102Z-TLA-G100 B 6-2-3

Wyzenbeek

ASTM D4157; GM9082P (Withdrawn 2012)2; SAE J948 (Sec. 4), J1530 (Sec. 5); TSL 5101G (Sec. 3.9.2, Method B, Sec. 3.9.4, Method D, Sec. 3.10.2 Method B, Sec. 3.10.4, Method D)

Veslic

Colorfastness

ISO 11640 (Except Sec. 6.3, 6.4, 7.8)

Rotary Type

Taber Abrasion

GMW 3208; MS 300-31 Sec 4.19; NES M0602 (Section 19.2); 8102Z-TLA-G100 (Section B-6-2-2)

Crocking

AATCC 8; ISO 105-X12



- **Flex Testing**

Bally Flex

ASTM D6182;
ISO 5402 (Except Wet); ISO 32100;
TSL 5101G (Sec 3.14.1, Method A)
(Ambient or cold capable available)

**Newark Flex –
“W” Flex**

ASTM D2097;
Ford FLTM BN 102-02;
TSL 5101G (Sec. 3.14.2, Method B)



- **Other Accredited Testing Methods**

**Test Method for
Mass Per Unit Area
(Weight) of Fabric**

ASTM D3776; GMW 3182;
MS 300-31 Sec 4.1;
NES M0602 (Section 7);
TSL 5101G (Section 3.1)

Color

AATCC-1, ISO-105-A02

**Resistance to Heat
Aging**

GM 2756M 3.3.16; TL 52064 5.12;
TSL 5101G 3.23; NES M0602 26;
8102Z-SZN-G100 (Sec. B-7)

**Temperature and
Humidity Aging
(Thermal cycles)**

VW/AUDI: TL 52064 6.9 / PV 1200;
FORD: WSS-M99P43-E1/E2 3.12.3;
Nissan M0602, GMW3262,
GMW14124;
TL 52064



- **Non-Accredited Testing Methods**

Schap Laboratory Services, LLC. has the capabilities to perform non-accredited testing in the following methods.

(Equipment used for testing meets the requirements of ISO 17025)

**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)

**Resistance to Cold
Crack (Impact)**

GMW 14126

Martindale Testing

ASTM D4966, ISO 17704, JIS L1096,
ISO 12947, etc.



• **Non-Accredited Testing Methods (Continued)**

Foam Testing

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))



Weather Testing

XENON UV Fading

-Q-Sun xenon arc-

- Test Chambers -

Nissan - M0602; GMW3262;
Toyota - TSL5101G;
Honda 8102Z-TLA-G100;
FCA MS-JK-4000 MS90106, etc.



Flammability for burn resistance of leather

ISO 3795
FMVSS 302
DIN 75200

Seatbelt Webbing Abrasion Tester

ASTM D6770, FED STD 191,
FMVSS 209, MIL-23223B,
MIL-T8363B, S5 1(d), SAE J339

Nissan Abrasion Testing

NES M0155 2008-N, NES
M0602_2022-3,

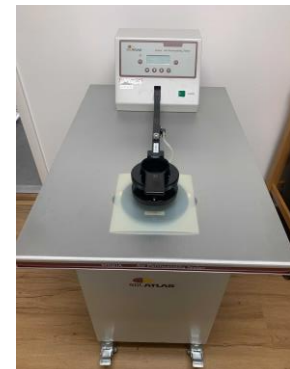


Scott Crease Flex Testing

GMW3217, JASO, JIS L1096,
JIS-K6404-6, NES M7081 Sec. 15.2,
Nissan NES M0155 (Section 17),
Nissan NES M0602 (Section 18.2),
Toyota TSL5101G (Section 3.29),
TSL5100G section 4.7

Air Permeability Testing

ASTM D737, DIN 53887,
EDANA 140.1, EDANA 140.2,
GB/T 5453, ISO 9237, JIS L 1096-A,
Test Heads
20 CM², 25 CM², 38 CM², 100 CM²



Other Oven and environmental chamber Testing

Temperature range: +180°C to -68°C
Humidity range: 10 to 98% RH

Other UTM Testing Universal Tester

Compression or Tensile up to 500 lbs,
Puncture Testing-ASTM F1342, Probe A