



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

SEIREN NORTH AMERICA
1500 E. Union Street
Morganton, NC 28680-0130
Alan Bostian Phone: 828 430 3456
Alan.Bostian@viscotec-ap.com

MECHANICAL

Valid To: April 30, 2019

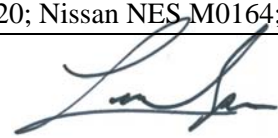
Certificate Number: 3139.01

In recognition of the successful completion of the A2LA Accreditation Program, accreditation is granted to this laboratory to perform the following types of tests on textiles:

<u>Test:</u>	<u>Test Methods:</u>
Abrasion	
Martindale	FLTM BN 158-01; ISO 12947 (I, II, IV)
Stoll	FLTM BN 108-01
Taber	ASTM D3884; Chrysler LP-463KB-21-01; GMW3208; Honda HES D6506, HES D6511; Mazda MES MN 405M; Mitsubishi ES-X83217, ES-X83220; Nissan NES M0164; SAE J948; Toyota TSL2105G, TSL5100G
Air Permeability	Honda HES D6506; ISO 9237; Nissan NES M0154; Toyota TSL 2107G
Blocking	GMW14132; Honda HES D6511; SAE J912; Toyota TSL5100G
Bond Strength	Chrysler LP-463LB-10-01; FLTM BN 151-05; GMW3220; Honda HES D6506, HES D6511; Mazda MES MN 405M; Mitsubishi ES-X83217, ES-X83220; Nissan NES M0164; Toyota TSL2105G, TSL5100G
Cycling	Chrysler LP-463LB-12-01
Heat Aging	Chrysler LP-463LB-13-01
Bow & Skew	ASTM D3882
Cleanability	Chrysler LP-463KC-04-01 (Procedure 1 and 2); Nissan NES M0154
Crease	WSS-M8P18-A1/A2/A3/A4 (3.11.2), WSS-M8P3-E1/E2/E3; Toyota TSL2104G

<u>Test:</u>	<u>Test Methods:</u>
Crocking	AATCC 8; FLTM BN 107-01; Honda HES D6506, HES D6511; ISO 105-X12; Mazda MES MN 405M; Mitsubishi ES-X83220; Nissan NES M0154, M0164; SAE J861; Toyota TSL2104G, TSL5100G
Dye Migration	GMW14141
Flammability	FMVSS 302; GMW3232; Honda HES D6003; ISO 3795; MS-JP-9-4; Mazda MES CF 050D; Mitsubishi ES-X60410, ES-X83220; Nissan NES M0094; SAE J369
Flexibility	GMW3390; Honda HES D6506, HES D6511; Mazda MES MN 405M; Mitsubishi ES-X83217 (4.21), ES-X83220 (4.16); Nissan NES M0154; Toyota TSL2104G, TSL5100G (4.18)
Flexibility – Bally	ASTM D6182; ISO 5402
Fogging	Chrysler LP-463DB-12-01; SAE J1756
Fogging – Gravimetric	SAE J1756; Toyota TSM503 (Method B)
Heat Age	Chrysler LP-463LB-13-01; GMW14124 (Cycle Q); Honda HES D6506 (5.27), HES D6511 (4.15); ISO 188; Mazda MES MN 405M; Mitsubishi ES-X83217 (4.18.4), ES-X83220; Toyota TSL2106G, TSL5100G
Leather Wrinkling	Chrysler LP-463KB-24-01
Linting	GMW3347; Toyota TSL2104G (4.11)
Mass	ASTM D3776 (Option C); GMW3182; Honda HES D6506, HES D6511; Mazda MES MN 405M; Mitsubishi ES-X83217, ES-E83220 (4.2.1); Nissan NES M0164; SAE J860; Toyota TSL2104G, TSL5100G
Mildew	GMW3259
Minking	Chrysler LP-463KB-37-01
Odor	Chrysler LP-463KB-34-01; FLTM BO 131-03; GMW3205; Mazda MES MN 405M; Mitsubishi ES-X83217, ES-X83220; SAE J1351
Oil Repellency	AATCC 118; Honda HES D6506 (5.31)
Pile Distortion	Chrysler LP-463KB-36-01; GMW4141; Honda HES D6506; Mazda MES MN 405M; Mitsubishi ES-X83220; Toyota TSL2106G
Resistance	
Color Stain Transfer	ASTM D6012; Toyota TSL2106G
Dye Transfer	FLTM BN 112-09
Curling	WSS-M8P18-A1/A2/A3/A4 (3.11.4), WSS-M8P3-E1/E2/E3
Humidity & Temperature	Chrysler LP-463LB-12-01 (Method A, B)
Hydrolysis	Chrysler LP-463LB-11-02
Migration Staining & Blocking	FLTM BN 103-01

<u>Test:</u>	<u>Test Methods:</u>
Resistance (continued)	
Pilling	Chrysler LP-463KB-37-01; FLTM BN 108-03, BN 108-14; Honda HES D6506 (5.19); Mitsubishi ES-X83220 (4.27, Method B Only); Nissan NES M0154 (22.2, Method II); Toyota TSL2105G (4.10, Method B Only) Ford WSS-M18-B1/B2/B4
Ravel	GMW3217
Surface Abrasion	Toyota TSL2105G, TSL5100G
Scuffing	SAE J365
Snagging	FLTM BN 108-07; Mazda MES MN 405M; Nissan NES M0154 (Method II Only); Toyota TSL2105G
Staining	FLTM BN 112-12
Perspiration	Chrysler LP-463KC-21-01; FLTM AN 101-01; GMW14296
Chemical Sunscreen & Insect Repellent	GMW14445
Seam Fatigue	Chrysler LP-463KB-13-01; FLTM BN 106-02; GMW3405; Honda HES D6506, HES D6511; Mazda MES MN 405M; Mitsubishi ES-X83217, ES-X83220; Nissan NES M0154, M0164; Toyota TSL2104G, TSL2105G, TSL5100G
Seam Strength	Chrysler LP-463KB-13-01; FLTM BN 119-01; Honda HES D6506, HES D6511; Mazda MES MN 405M; Mitsubishi ES-X83217, ES-X83220; Nissan NES M0154, M0164; Toyota TSL2104G, TSL2105G, TSL5100G
Shrinkage	FLTM BN 105-01; GMW4217; Honda HES D6506, HES D6511; Mazda MES MN 405M; Mitsubishi ES-X83217, ES-X83220; SAE J883; Toyota TSL2104G
Soiling & Cleanability	Chrysler LP-463KC-04-02 (Procedure 2); FLTM BN 112-08; GMW3402; Mitsubishi ES-X83217, ES-X83220
Stain Release	Chrysler LP-463KB-37-02; Chrysler LP-463KB-37-03
Stretch & Set	GMW3211; Honda HES D6506, HES D6511; Mazda MES MN 405M; Mitsubishi ES-X83217, ES-X83220; Nissan NES M1054, M0164; SAE J855; Toyota TSL2104G, TSL2105G, TSL5100G
Surface Friction	Toyota TSL2104G
Tear Strength – Trapezoid	ASTM D5587, D5733; Chrysler LP-463KB-03-01; GMW3326; Honda HES D6506; ISO 3377-1; Mazda MES MN 405M; Mitsubishi ES-X83220; Nissan NES M0154; Toyota TSL2105G, TSL5100G
Tear Strength – Trouser	ASTM D2261; Honda HES D6511; ISO 13937-2; Mitsubishi ES-X83217, ES-X83220; Nissan NES M0164;



<u>Test:</u>	<u>Test Methods:</u>
	Subaru TS343-08-009 (6.4, Method A); Toyota TSL2105G, TSL2106G, TSL5100G
Tensile Strength & Elongation	ASTM D5034 (Withdrawn 2008) ¹ , D2208, D2211, D5035; GMW3010 (Code A, S); Honda HES D6506, HES D6511; Mazda MES MN 405M; Mitsubishi ES-X83217, ES-X83220; Nissan NES M0154, M0164; Toyota TSL2104G, TSL2105G, TSL2106G, TSL5100G
Thickness	ASTM D1777; Chrysler LP-463LB-07-01 (Method B); Honda HES D6506; Mazda MES MN 405M; Nissan NES M0164; Toyota TSL2104G
Water Repellency	GMW4726; Mazda MES MN 405M; Nissan NES M0154; Toyota TSL2107G
Water Spotting, Resistance	GMW14102; Honda HES D6506; Mitsubishi ES-X83220 (4.34); Toyota TSL2105G (4.17)
Wyzenbeek	Chrysler LP-463KB-06-01
Yarn Count	ASTM D3775; GMW4090; Mazda MES MN 405M; Toyota TSL2104G

¹This 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.





Accredited Laboratory

A2LA has accredited

SEIREN NORTH AMERICA

Morganton, NC

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 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 23rd day of May 2017.

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

President and CEO
For the Accreditation Council
Certificate Number 3139.01
Valid to April 30, 2019

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