



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

VARTEST LABORATORIES, INC.^{2,3}
19 West 36th St 10th Floor
New York, NY 10018
Adam R. Varley Phone: 212 947 8391

MECHANICAL

Valid To: August 31, 2024

Certificate Number: 2180.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory listed above, as well as the satellite laboratory location listed below to perform the following tests on fiber, yarn, textiles and other related end use items, coated fabrics and trims, including both metal and plastic components:

TEST DESCRIPTION

TEST METHODS

Physical Testing:

Accelerated Aging of Sterile Barrier Systems and Medical Devices	ASTM F1980
Bending Modulus by Means of a Cantilever Beam	ASTM D747
Ball Bursting Strength	ASTM D6797, D751 (Sections 19-22); NFPA 1971 8.13
Blocking Resistance at Elevated Temperatures	ASTM D751 (Sections 90-93)
Brush Pilling	ASTM D3511
Dynamic Fatigue	ASTM D4033-92 (Withdrawn 2001) ¹
Fabric Thickness	ASTM D1777 Options 1, 2, 5
Wale and Course Count of Weft Knitted Fabrics	ASTM D8007
Linting and other Particle Generation	ISO 9073-10
Low Temperature Bend Test	ISO 4675
Mace Snagging	ASTM D3939
Martindale Abrasion	EN 530; ASTM D4966; ISO 12947
Martindale Pilling	ASTM D4970
Mass Per Unit Area	ASTM D3776
Moisture Vapor Transmission	ASTM E96
Mullen Bursting Strength	ASTM D3786; ISO 13938-1
Nitrile Examination Gloves for Medical Application	ASTM D6319
Penetration Resistance of Protective Clothing to Liquids	ASTM F903
Synthetic Blood	ASTM F1670
Rain Test	AATCC 35
Water Resistance: Impact Penetration	AATCC 42
Random Tumble Pilling	ASTM D3512
Resistance to Damage by Flexing	ISO 7854 (Method A)
Seam Failure in Woven Fabric	ASTM D1683; NFPA 1971 8.14

TEST DESCRIPTION

Seam Slippage Woven Upholstery Fabrics
Slippage of Yarn in Seam
Small Parts Rule
Spray Test
Strength/Elongation Grab Method
Strength/Elongation Strip Method
Strength/Elongation, Rubber- or Plastics-Coated Fabrics
Stretch Properties of Knitted Fabric
Stretch Properties of Textiles
Stretch Properties of Woven Fabric With Stretch Yarn
Taber Abrasion
Tear Strength Elmendorf Method
Tear Strength of Fabrics: Tongue Method
Tear resistance, Rubber- or Plastics-Coated fabrics
Tensile Properties of Yarn

Tension and Elongation of Elastic Fabric
Thermal Stability, Heat and Thermal Shrinkage Resistance

Heat Resistance Using a Hot Air Circulating Oven
Toys and Other Articles Intended for Use by Children
Sharp Point Determination- Toys and Other Articles
 Intended for Use by Children
Sharp Edge Determination- Toys and Other Articles
 Intended for Use by Children
Trapezoid Tear Strength

Warp (End) and Filling (Pick) Count of Woven Fabric
Water Resistance - Hydrostatic Pressure Test
Water Resistance - Hydrostatic Pressure Test
Width of Fabric
Wyzenbeek Abrasion
Yarn Number by Skein Method
Yarn Number: Short Length Method
Yarn Slippage Upholstery Seam
Zipper Strength

Dimensional Change and Appearance:

Home Laundering
 Appearance of Apparel
 Fabric Smoothness
 Seam Smoothness
 Crease Retention
 Dimensional Change, Fabric
 Dimensional Change, Garment
 Skewness Change in Fabric and Garment Twist
Dimensional Change Domestic Washing
Dimensional Change to Commercial Laundering
Drycleaning in Perchloroethylene: Machine

TEST METHODS

ASTM D3597 Section 6.3
ASTM D434-95 (Withdrawn 2004)¹
CPSC 16 CFR Part 1501
AATCC 22
ASTM D5034; NFPA 1971 8.50
ASTM D5035; ISO 13934-1
ISO 1421 (Withdrawn 1998)¹
ASTM D2594
ASTM D6614
ASTM D3107
ASTM D3884
ASTM D1424
ASTM D2261
ISO 4674-1 (Withdrawn 2003)¹
ASTM D2256, Conditions 1-4;

ASTM D4964
NFPA 1971 8.6, NFPA 1975 8.2,
NFPA 2112 8.4
ASTM F2894
CPSC 16 CFR 1500.51, 1500.52, 1500.53
CPSC 16 CFR 1500.48

CPSC 16 CFR 1500.49

ASTM D5733-99 (Withdrawn 2008)¹;
ASTM D5587 ; NFPA 1971 8.12
ASTM D3775
AATCC 127 Option 2
ISO 811
ASTM D3774
ASTM D4157
ASTM D1907
ASTM D1059
ASTM D4034
ASTM D2061 Sections: 14.1/2/3, 22.2/3/5/6,
30.1/2/3, 58, 68, 97

AATCC 143
AATCC 124
AATCC 88B
AATCC 88C
AATCC 135; NFPA 1971 8.1, 8.24
AATCC 150; ISO 3759
AATCC 179
ISO 3759, ISO 5077, ISO 6330
AATCC 96
AATCC TM 158 (except Section 9)

TEST DESCRIPTION

Colormetrics:

Colorfastness to Burnt Gas Fumes
Colorfastness to Crocking: Flat
Colorfastness to Crocking: Rotary
Colorfastness to Drycleaning
Colorfastness to Hot Pressing
Colorfastness to Accelerated Laundering
Colorfastness to Light, Xenon
Colorfastness to Perspiration
Colorfastness to Sea Water
Colorfastness to Water
Colorfastness to Water: Chlorinated Pool, Option 1
Colorfastness to Bleaching: Hypochlorite
Colorfastness to Water Spotting

Instrumental Color Measurement
Oil Repellency - Hydrocarbon Resistance
Opacity of Paper
pH of Water Extract
Soil Stain Release
Ultraviolet Transmission Through Fabrics
Weather Resistance - Xenon Light Exposure

Chemical and Elemental Analysis:

Extractable Matter in Textiles
Fiber Identification: Qualitative
Fiber Identification: Quantitative
Fiber Identification: SEM Analysis of Specialty Fibers
Finish Analysis
Fiber Diameter: Projection Microscope
Formaldehyde Release

Flammability:

Cigarette Ignition Resistance, Upholstered Furniture
Flame Propagation - Small Scale
Limited Flame Spread
Flammability, 45 Degree, Wearing Apparel
Flammability, Children's Sleepwear
Flammability, Vertical Test

Smolder Resistance for Upholstered Furniture
Vertical Flame - Protective Clothing

Thermal:

Thermal and Evaporative Resistance-Sweating Hot Plate
Thermal Resistance Batting Hot Plate
Thermal & Water Vapour Resistance SGHP
Clothing and Equipment for Protection Against Heat —
Test Method for Convective Heat Resistance using a
Hot Air Circulating Oven

TEST METHODS

AATCC 23
AATCC 8; ISO 105-X12
AATCC 116
AATCC 132; ISO 105 D01
AATCC 133; ISO105-X11
AATCC 61; ISO 105-C06
AATCC 16.3; ISO 105-B02
AATCC 15; ISO 105-E04
AATCC 106; ISO 105-E02
AATCC 107; ISO 105-E01
AATCC 162
ISO 105 N01
AATCC 104

AATCC EP 6, 7; ASTM E1164; CIE 15
AATCC 118; ISO 14419
Tappi T425 - om
AATCC 81; ISO 3071
AATCC 130
AATCC 183
AATCC 169

ASTM D2257
AATCC 20; ASTM D276
AATCC 20A; ASTM D629
IWTO 58
AATCC 94
ASTM D2130; IWTO 8; AATCC 20A
AATCC 112; ISO 14184-1,2; JIS L 1041

NFPA 260; ASTM E1353; UFAC
NFPA 701 Test 1
ISO 15025
CPSC 16 CFR Part 1610
CPSC 16 CFR Part 1615/1616
ASTM D6413; FAR 14 CFR Part 25.853;
FED-STD-191A Mtd 5903.1; NFPA 1971 8.2
California Technical Bulletin 117-2013 June
ASTM F1358

ASTM F1868
ASTM D1518
ISO 11092
ISO 17493

TEST DESCRIPTION

Laboratory Practices:

Conditioning Textiles for Testing

Biological Testing:

Antifungal Activity Assessment

Antibacterial Finish Assessment

Antibacterial Finish Assessment - Parallel Streak Method

Determining the Antimicrobial Activity of Antimicrobial Agents Under Dynamic Contact Conditions

Resistance to Fungi

Resistance to Viral Penetration

Antiviral Activity of Textiles

Biological Evaluation of Medical Devices —
In Vitro Cytotoxicity

Retroreflective and High Conspicuity Testing:

Area Measurement of Irregularly Shaped Fabric

Describing Retroreflection

Measuring Photometric Characteristics of Retroreflectors

High Visibility Safety Apparel

High Visibility Safety Apparel - Garments & Accessories

High Visibility Safety Apparel - Retroreflection

High Visibility Safety Apparel - Fabric

High Visibility Safety Garments

High Visibility Warning Clothing

Retroreflective Sheeting for Traffic Control

Lead and Heavy Metal Testing:

Lead Content

Total Lead (Pb) in Children's Metal Products

Total Lead (Pb) in Non-Metal Children's Products

Lead (Pb) in Paint and Other Similar Surface Coatings

Determination of Lead by Flame Atomic Absorption Spectrometry (FAAS)

Preparation of Dried Paint Samples by Hotplate or

Microwave Digestion for Subsequent Lead Analysis

Acid Digestion of Sediments, Sludges, and Soils

Microwave Assisted Acid Digestion of Sediments, Sludges, Soils, and Oils

Microwave Assisted Acid Digestion of Siliceous and Organically Based Matrices

Flame Atomic Absorption Spectrophotometry

Phthalate Testing:

Determination of Phthalates

TEST METHODS

ASTM D1776; NFPA 1971 8.1

AATCC 30

AATCC 100

AATCC 147

ASTM E2149

ASTM G21

ASTM F1671

ISO 18184

ISO 10993-5

ANSI/ISEA 107-2010, 2015

ASTM E808

ASTM E809; CIE 54.2

CSA Z96

ANSI/ISEA 107-2010, 2015, 2020

ANSI/ISEA 107-2010, 2015, 2020

ANSI/ISEA 107-2010, 2015, 2020

AS/NZ 1906.4:2010 + Amdt 1/2014

ISO 20471/Amd 1:2016

ASTM D4956

CPSC 16 CFR Part 1303

CPSC-CH-E1001-08.3

CPSC-CH-E1002-08.3

CPSC-CH-E1003-09.1

ASTM E1613

ASTM E1645

EPA 3050B

EPA 3051A

EPA 3052

EPA 7000

CPSC-CH-C1001-09.4

TEST DESCRIPTION

TEST METHODS

Drycleaning and Industrial Laundering Procedures:

Drycleaning in Perchloroethylene: Machine

AATCC TM 158 Section 9

Procedure for cleaning and finishing using:

Tetrachloroethene

ISO 3175-2

Hydrocarbon solvents

ISO 3175-3

Dibutoxymethane

ISO 3175-5

Decamethylpentacyclosiloxane

ISO 3175-6

Industrial washing and finishing procedures for testing of
workwear

ISO 15797

Protective Ensembles for Structural Fire Fighting and
Proximity Fire Fighting — Washing and Drying
Procedure

NFPA 1971 Section 8.1.12 (except gloves and
glove pouches)

¹This laboratory's scope contains withdrawn / 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.

² The Consumer Product Safety Improvement Act (CPSIA) requires that every children's product subject to a federal consumer product safety requirement be tested by a Consumer Product Safety Commission (CPSC) accepted laboratory for compliance with the applicable federal children's product safety requirements. Accreditation by A2LA does not infer acceptance by the CPSC. Please verify this organization's acceptance status by using the CPSC's searchable database, located at <http://www.cpsc.gov/cgi-bin/labsearch/>.

³This accreditation covers testing performed at all laboratory locations listed in the scope of accreditation.



Accredited Laboratory

A2LA has accredited

VARTEST LABORATORIES, INC.

New York, NY

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 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 27th day of December 2022.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President Accreditation Services
For the Accreditation Council
Certificate Number 2180.01
Valid to August 31, 2024
Revised October 31, 2023

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