SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

VARTEST LABORATORIES, INC.[2, 3]
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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Dynamic Fatigue	ASTM D4033-92 (Withdrawn 2001)[1]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

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TEST DESCRIPTION	TEST METHODS
Seam Slippage Woven Upholstery Fabrics	ASTM D3597 Section 6.3
Slippage of Yarn in Seam	ASTM D434-95 (Withdrawn 2004) [1]
Small Parts Rule	CPSC 16 CFR Part 1501
Spray Test	AATCC 22
Strength/Elongation Grab Method	ASTM D5034; NFPA 1971 8.50
Strength/Elongation Strip Method	ASTM D5035
Strength/Elongation, Rubber- or Plastics-Coated Fabrics	ISO 1421 (Withdrawn 1998)[1]
Stretch Properties of Knitted Fabric	ASTM D2594
Stretch Properties of Textiles	ASTM D6614
Stretch Properties of Woven Fabric With Stretch Yarn	ASTM D3107
Taber Abrasion	ASTM D3884
Tear Strength Elmendorf Method	ASTM D1424
Tear Strength of Fabrics: Tongue Method	ASTM D2261
Tear resistance, Rubber- or Plastics-Coated fabrics	ISO 4674-1 (Withdrawn 2003)[1]
Tensile Properties of Yarn	ASTM D2256, Conditions 1-4
Tension and Elongation of Elastic Fabric	ASTM D4964
Thermal Stability, Heat and Thermal Shrinkage Resistance	NFPA 1971 8.6, NFPA 1975 8.2, NFPA 2112 8.4
Heat Resistance Using a Hot Air Circulating Oven	ASTM F2894
Toys and Other Articles Intended for Use by Children	CPSC 16 CFR 1500.51, 1500.52, 1500.53
Sharp Point Determination- Toys and Other Articles Intended for Use by Children	CPSC 16 CFR 1500.48
Sharp Edge Determination- Toys and Other Articles Intended for Use by Children	CPSC 16 CFR 1500.49
Trapezoid Tear Strength	ASTM D5733-99 (Withdrawn 2008)[1]; ASTM D5587 ; NFPA 1971 8.12
Warp (End) and Filling (Pick) Count of Woven Fabric	ASTM D3775
Water Resistance - Hydrostatic Pressure Test	AATCC 127 Option 2
Water Resistance - Hydrostatic Pressure Test	ISO 811
Width of Fabric	ASTM D3774
Wyzenbeek Abrasion	ASTM D4157
Yarn Number by Skein Method	ASTM D1907
Yarn Number: Short Length Method	ASTM D1059
Yarn Slippage Upholstery Seam	ASTM D4034
Zipper Strength	ASTM D2061 Sections: 14.1/2/3, 22.2/3/5/6, 30.1/2/3, 58, 68, 97
Dimensional Change and Appearance:	
Home Laundering	
Appearance of Apparel	AATCC 143
Fabric Smoothness	AATCC 124
Seam Smoothness	AATCC 88B
Crease Retention	AATCC 88C
Dimensional Change, Fabric	AATCC 135; NFPA 1971 8.1, 8.24
Dimensional Change, Garment	AATCC 150; ISO 3759
Skewness Change in Fabric and Garment Twist	AATCC 179
Dimensional Change Domestic Washing	ISO 3759, ISO 5077, ISO 6330
Dimensional Change to Commercial Laundering	AATCC 96
Drycleaning in Perchloroethylene: Machine	AATCC TM 158 (except Section 9)

TEST DESCRIPTION	TEST METHODS
Colormetrics:	
Colorfastness to Burnt Gas Fumes	AATCC 23
Colorfastness to Crocking: Flat	AATCC 8; ISO 105-X12
Colorfastness to Crocking: Rotary	AATCC 116
Colorfastness to Drycleaning	AATCC 132
Colorfastness to Hot Pressing	AATCC 133; ISO105-X11
Colorfastness to Accelerated Laundering	AATCC 61; ISO 105-C06
Colorfastness to Light, Xenon	AATCC 16.3; ISO 105-B02
Colorfastness to Perspiration	AATCC 15; ISO 105-E04
Colorfastness to Sea Water	AATCC 106; ISO 105-E02
Colorfastness to Water	AATCC 107; ISO 105-E01
Colorfastness to Water: Chlorinated Pool, Option 1	AATCC 162
Colorfastness to Water Spotting	AATCC 104
Instrumental Color Measurement	AATCC EP 6, 7; ASTM E1164; CIE 15
Oil Repellency - Hydrocarbon Resistance	AATCC 118; ISO 14419
Opacity of Paper	Tappi T425 - om
pH of Water Extract	AATCC 81; ISO 3071
Soil Stain Release	AATCC 130
Ultraviolet Transmission Through Fabrics	AATCC 183
Weather Resistance - Xenon Light Exposure	AATCC 169
Chemical and Elemental Analysis:	
Extractable Matter in Textiles	ASTM D2257
Fiber Identification: Qualitative	AATCC 20; ASTM D276
Fiber Identification: Quantitative	AATCC 20A; ASTM D629
Fiber Identification: SEM Analysis of Specialty Fibers	IWTO 58
Finish Analysis	AATCC 94
Fiber Diameter: Projection Microscope	ASTM D2130; IWTO 8; AATCC 20A
Formaldehyde Release	AATCC 112; ISO 14184-1,2; JIS L 1041
Flammability:	
Cigarette Ignition Resistance, Upholstered Furniture	NFPA 260; ASTM E1353; UFAC
Flame Propagation - Small Scale	NFPA 701 Test 1
Limited Flame Spread	ISO 15025
Flammability, 45 Degree, Wearing Apparel	CPSC 16 CFR Part 1610
Flammability, Children's Sleepwear	CPSC 16 CFR Part 1615/1616
Flammability, Vertical Test	ASTM D6413; FAR 14 CFR Part 25.853; FED-STD-191A Mtd 5903.1; NFPA 1971 8.2
Smolder Resistance for Upholstered Furniture	California Technical Bulletin 117-2013 June
Vertical Flame - Protective Clothing	ASTM F1358
Thermal:	
Thermal and Evaporative Resistance-Sweating Hot Plate	ASTM F1868
Thermal Resistance Batting Hot Plate	ASTM D1518
Thermal & Water Vapour Resistance SGHP	ISO 11092
Clothing and Equipment for Protection Against Heat — Test Method for Convective Heat Resistance using a Hot Air Circulating Oven	ISO 17493
Laboratory Practices:	
Conditioning Textiles for Testing	ASTM D1776; NFPA 1971 8.1

TEST DESCRIPTION	TEST METHODS
Biological Testing:	
Antifungal Activity Assessment	AATCC 30
Antibacterial Finish Assessment	AATCC 100
Antibacterial Finish Assessment - Parallel Streak Method	AATCC 147
Determining the Antimicrobial Activity of Antimicrobial Agents Under Dynamic Contact Conditions	ASTM E2149
Resistance to Fungi	ASTM G21
Resistance to Viral Penetration	ASTM F1671
Antiviral Activity of Textiles	ISO 18184
Biological Evaluation of Medical Devices — In Vitro Cytotoxicity	ISO 10993-5
Retroreflective and High Conspicuity Testing:	
Area Measurement of Irregularly Shaped Fabric	ANSI/ISEA 107-2010, 2015
Describing Retroreflection	ASTM E808
Measuring Photometric Characteristics of Retroreflectors	ASTM E809; CIE 54.2
High Visibility Safety Apparel	CSA Z96
High Visibility Safety Apparel - Garments & Accessories	ANSI/ISEA 107-2010, 2015, 2020
High Visibility Safety Apparel - Retroreflection	ANSI/ISEA 107-2010, 2015, 2020
High Visibility Safety Apparel - Fabric	ANSI/ISEA 107-2010, 2015, 2020
High Visibility Safety Garments	AS/NZ 1906.4:2010 + Amdt 1/2014
High Visibility Warning Clothing	ISO 20471/Amd 1:2016
Retroreflective Sheeting for Traffic Control	ASTM D4956
Lead and Heavy Metal Testing:	
Lead Content	CPSC 16 CFR Part 1303
Total Lead (Pb) in Children's Metal Products	CPSC-CH-E1001-08.3
Total Lead (Pb) in Non-Metal Children's Products	CPSC-CH-E1002-08.3
Lead (Pb) in Paint and Other Similar Surface Coatings	CPSC-CH-E1003-09.1
Determination of Lead by Flame Atomic Absorption Spectrometry (FAAS)	ASTM E1613
Preparation of Dried Paint Samples by Hotplate or Microwave Digestion for Subsequent Lead Analysis	ASTM E1645
Acid Digestion of Sediments, Sludges, and Soils	EPA 3050B
Microwave Assisted Acid Digestion of Sediments, Sludges, Soils, and Oils	EPA 3051A
Microwave Assisted Acid Digestion of Siliceous and Organically Based Matrices	EPA 3052
Flame Atomic Absorption Spectrophotometry	EPA 7000
Phthalate Testing:	
Determination of Phthalates	CPSC-CH-C1001-09.4

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TEST DESCRIPTION	TEST METHODS
Drycleaning and Industrial Laundering Procedures:	
Drycleaning in Perchloroethylene: Machine Procedure for cleaning and finishing using:	AATCC TM 158 Section 9
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)

[1]This 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/.

[3]This 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.

Mr. Trace McInturff, Vice President Accreditation Services
For the Accreditation Council
Certificate Number 2180.01
Valid to August 31, 2024
Revised May 23, 2023

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