



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

VARTEST LABORATORIES, INC.²
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MECHANICAL

Valid To: August 31, 2020

Certificate Number: 2180.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory 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:

Bending Modulus by Means of a Cantilever Beam	ASTM D747
Ball Bursting Strength	ASTM D6797; NFPA 1971 8.13
Blocking Resistance at Elevated Temperatures	ASTM D751 Pts 84-88
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Dynamic Fatigue	ASTM D4033-92 (Withdrawn 2001) ¹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
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
Penetration Resistance of Protective Clothing to Liquids	ASTM F903
Penetration Resistance of Protective Clothing to Synthetic Blood	ASTM F1670
Rain Test	AATCC 35
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
Seam Slippage Women 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Slippage of Yarn in Seam	ASTM D434-95 (Withdrawn 2004) ¹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 8.49
Strength/Elongation Strip Method	ASTM D5035
Stretch Properties of Knitted Fabric	ASTM D2594

TEST DESCRIPTION

Stretch Properties of Textiles
Stretch Properties of Woven Fabric With Stretch Yarn
Taber Abrasion
Tear Strength Elmendorf Method
Tear Strength of Fabrics: Tongue Method
Tensile Properties of Yarn
Tension and Elongation of Elastic Fabric
Thermal Stability, Heat and Thermal Shrinkage Resistance
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:

Appearance of Apparel After Laundering
Appearance of Fabrics After Repeated Home Laundering
Appearance of Seams in Durable Press Items After Repeated Home Laundering
Appearance Retention of Creases in Fabric After Repeated Home Laundering
Dimensional Change in Commercial Dry Cleaning
Dimensional Change in Home Laundering, Fabric
Dimensional Change in Home Laundering, Garment
Dimensional Change Domestic Washing
Dimensional Change to Commercial Laundering
Skewness Change in Fabric and Garment Twist in Home Laundering

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

TEST METHODS

ASTM D6614
ASTM D3107
ASTM D3884
ASTM D1424
ASTM D2261
ASTM D2256, Conditions 1-4
ASTM D4964
NFPA 1971 8.6; NFPA 1975 8.2; NFPA 2112 8.4

CPSC 16 CFR 1500.51, 1500.52, 1500.53
CPSC 16 CFR 1500.48

CPSC 16 CFR 1500.49

ASTM D5587; NFPA 1971 8.12
ASTM D3775
AATCC 127 Option 2
ISO 811
ASTM D3774
ASTM D4157
ASTM D1907
ASTM D1059
ASTM D4034-92 (Withdrawn 2001)¹
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 158; ISO 3175-1, -2
AATCC 135; NFPA 1971 8.1, 8.24
AATCC 150; ISO 3759
ISO 3759, ISO 5077, ISO 6330
AATCC 96
AATCC 179

AATCC 23
AATCC 8; ISO 105-X12
AATCC 116
AATCC 132
AATCC 133; ISO105-X11
AATCC 61; ISO 105-C06
AATCC 16.3; ISO 105-B02:2014¹
AATCC 15; ISO 105-E04
AATCC 106; ISO 105-E02

TEST DESCRIPTION

Colorfastness to Water
Colorfastness to Water: Chlorinated Pool
Colorfastness to Water Spotting
Formaldehyde Release
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

Flammability:

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

Ignitability of Upholstered Furniture – Match Flame
Ignitability of Upholstered Furniture –
Smoldering Cigarette

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

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

TEST METHODS

AATCC 107; ISO 105-E01
AATCC 162
AATCC 104
AATCC 112; ISO 14184-1,2; JIS L 1041
AATCC EP 6, 7; ASTM E1164
AATCC 118
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

NFPA 260; ASTM E1353; UFAC
NFPA 701 Test 1
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
EN 1021-2; ISO 8191-2
EN 1021-1; ISO 8191-1

California Technical Bulletin 117-2013 June
ASTM F1358

ASTM F1868
ASTM D1518
ISO 11092

ASTM D1776; NFPA 1971 8.1

AATCC 30
AATCC 100
AATCC 147
ASTM E2149

ASTM G21

TEST DESCRIPTION

TEST METHODS

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
Coefficient of Retroreflection, Sheeting	ASTM E810
High Visibility Safety Apparel	CSA Z96
High Visibility Safety Apparel - Garments & Accessories	ANSI/ISEA 107-2010, 2015
High Visibility Safety Apparel - Retroreflection	ANSI/ISEA 107-2010, 2015
High Visibility Safety Apparel - Fabric	ANSI/ISEA 107-2010, 2015
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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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/>.



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 17025:2005 *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 April 2017).



Presented this 6th day of November 2018.

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

President and CEO
For the Accreditation Council
Certificate Number 2180.01
Valid to August 31, 2020

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