



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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MECHANICAL

Valid To: August 31, 2018

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Dynamic Fatigue	ASTM D4033-92 (Withdrawn 2001) <sup>1</sup>
Fabric Thickness	ASTM D1777
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Slippage of Yarn in Seam	ASTM D434-95 (Withdrawn 2004) <sup>1</sup>
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
Stretch Properties of Textiles	ASTM D6614
Stretch Properties of Woven Fabric With Stretch Yarn	ASTM D3107

## **TEST DESCRIPTION**

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  
    Sharp Edge Determination  
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  
Colorfastness to Water

## **TEST METHODS**

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 1500.48  
CPSC 16 CFR 1500.49  
ASTM D5587; NFPA 1971 8.12  
ASTM D3775  
AATCC 127  
ISO 811  
ASTM D3774  
ASTM D4157  
ASTM D1907  
ASTM D1059-01 (Withdrawn 2010)<sup>1</sup>  
ASTM D4034-92 (Withdrawn 2001)<sup>1</sup>  
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 135-2004; NFPA 1971 8.1, 8.24  
AATCC 150; ISO 3759-1, -2  
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-B02:1994 (Withdrawn 2013)<sup>1</sup>;  
ISO 105-B02:2013 (Withdrawn 2014)<sup>1</sup>  
AATCC 15; ISO 105-E04  
AATCC 106; ISO 105-E02  
AATCC 107; ISO 105-E01



## **TEST DESCRIPTION**

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

### ***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 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 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
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
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-C1001-09.3
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<sup>1</sup>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.

<sup>2</sup> 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 8 January 2009).



Presented this 27<sup>th</sup> day of December 2016.

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, 2018

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