



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

VARTEST LABORATORIES, INC.  
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MECHANICAL

Valid To: September 30, 2010

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**

***Physical Testing:***

Air Permeability  
Bending Modules by Means of a Cantilever Beam  
Ball Bursting Strength  
Blocking Resistance at Elevated Temperatures  
Brush Pilling  
Count of Woven Fabric  
CPSC Small Parts Rule  
Dynamic Fatigue  
Fabric Thickness  
Fiber Length Distribution of Cotton Fibers  
Frosting Abrasion: Screen Wire Method  
Low Temperature Bend Test  
Mace Snagging  
Martindale Abrasion  
Martindale Pilling  
Mass Per Unit Area: Woven Fabric  
Moisture Vapor Transmission  
Mullen Bursting Strength  
Penetration Resistance of Protective Clothing to Liquids  
Penetration Resistance of Protective Clothing to Synthetic Blood  
Pile Retention  
Rain Test  
Random Tumble Pilling  
Resistance to Damage by Flexing  
Seam Failure in Woven Fabric  
Seam Strength  
Slippage of Yarn in Seam

**TEST METHODS**

ASTM D737  
ASTM D747  
ASTM D6797; NFPA 1971 8.13  
ASTM D751 Pts 84-88  
ASTM D3511  
ASTM D3775  
CPSC 16 CFR Part 1501  
ASTM D4033  
ASTM D1777  
ASTM D1440  
AATCC 119; ASTM D3886  
ISO 4675  
ASTM D3939  
EN 530; ASTM D4966; ISO 12947  
ASTM D4970  
ASTM D3776  
ASTM E96  
ASTM D3786; ISO 13938-1  
ASTM F903  
ASTM F1670  
ASTM D 4685  
AATCC 35  
ASTM D3512  
ISO 7854  
ASTM D1683; NFPA 1971 8.14  
ASTM D3597  
ASTM D434

## **TEST DESCRIPTION**

### ***Physical Testing (cont'd):***

Spray Test  
Strength/Elongation Grab Method  
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  
Tensile 1" Cut  
Tensile Properties of Yarn  
Tension and Elongation of Elastic Fabric  
Thermal Stability Heat and Thermal Shrinkage Resistance

Trapezoid Tear Strength  
Water Impact Penetration  
Water Resistance High Range Hydrostatic

Water Resistance Low Range Hydrostatic  
Width of Fabric  
Wrinkle Recovery – Compression  
Wrinkle Recovery: Recovery Angle Method  
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 in Laundering  
Dimensional Change to Commercial Laundering  
Skewness Change in Fabric

## **TEST METHODS**

AATCC 22; NFPA 1971 8.26  
ASTM D5034; NFPA 1971 8.50  
ASTM D2594  
ASTM D6614  
ASTM D3107  
ASTM D3884  
ASTM D1424  
ASTM D2261  
ASTM D5035  
ASTM D2256  
ASTM D4964  
NFPA 1971 8.6; NFPA 1975 8.2;  
NFPA 2112 8.4  
ASTM D5733, D5587; NFPA 1971 8.12  
AATCC 42  
ASTM D751 Pts 37-40; FTMS 191-A  
Mtd 5512; NFPA 1971 8.27  
AATCC 127  
ASTM D3774  
AATCC 128, ISO 9867  
AATCC 66  
ASTM D4157; GM 9082P  
ASTM D1907  
ASTM D1059  
ASTM D4034  
ASTM D2061

AATCC 143  
AATCC 124  
AATCC 88B  
  
AATCC 88C

AATCC 158; ISO 3175  
AATCC 135; ISO 3759;  
NFPA 1971 8.1, 8.25  
AATCC 150; ISO 3759  
ISO 6330  
AATCC 96; ISO 5077  
AATCC 179

## **TEST DESCRIPTION**

### ***Colorfastness:***

Absorptive Capacity  
Colorfastness to Burnt Gas Fumes  
Colorfastness to Crocking: Flat  
Colorfastness to Crocking: Rotary  
Colorfastness to Drycleaning  
Colorfastness to Hot Pressing  
Colorfastness to Laundering  
Colorfastness to Light  
  
Colorfastness to Ozone: High Humidity  
Colorfastness to Ozone: Low Humidity  
Colorfastness to Perspiration  
Colorfastness to Sea Water  
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  
Water Repellency - Tumble Jar  
Weather Resistance: Xenon Light Exposure

### ***Flammability:***

Blanket Flammability  
Fire Tests for Furniture  
Flammability of Bed Clothing  
Flammability of Furniture  
Flammability, 45 Degree  
Flammability, Children's Sleepwear  
Flammability, Vertical Test  
  
Foam Vertical  
Ignitability of Upholstered Furniture - Match Flame  
Ignitability of Upholstered Furniture - Smoldering Cigarette  
Large Scale  
Non-Foam Filling Materials  
Small Scale Flame Propagation  
Synthetic Battings  
Technical Bulletin  
UFAC Cigarette Test  
Upholstered Furniture Flammability Test  
Vertical Flame - Protective Clothing  
Vertical Natural Battings

## **TEST METHODS**

ASTM D1117  
AATCC 23  
AATCC 8; ISO 105-X12  
AATCC 116  
AATCC 132  
AATCC 133; ISO 105 X11  
AATCC 61; ISO 105-C06  
AATCC 16; ISO 105-B02; JIS L0843;  
SAE J1885, J1960, J2412, J2527  
AATCC 129  
AATCC 109  
AATCC 15; ISO 105-E04  
AATCC 106; ISO 105-E02  
AATCC 107; ISO 105-E01  
AATCC 162  
AATCC 104  
AATCC 112  
AATCC EVAL 7C; ASTM E1164  
AATCC 118  
Tappi T425 - om  
AATCC 81; ISO 3071  
AATCC 130  
AATCC 183  
AATCC 70  
AATCC 169  
  
ASTM D4151  
BS 5852  
BS 7175  
BS 5852; IMO Res. A688 (17)  
CPSC 1610  
CPSC 1615/1616  
ASTM D6413; FAR 25.853;  
FASS II FED 191A, 5903; NFPA 1971 8.2  
CAL 117-A  
BSEN 1021-2  
BSEN 1021-1; ISO 8197-1  
NFPA 701  
CAL 117-D  
NFPA 701  
CAL 117C  
CAL 117E  
BIFMA/UFAC/NFPA 260  
IMO Res. A652 (16)  
ASTM F1358  
CAL 117B

## **TEST DESCRIPTION**

### ***Laboratory Practices:***

Conditioning Textiles for Testing  
Headlinings and Sunshade Filler Materials

### ***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 Bacteria

### ***Retroreflective and High Conspicuity Testing:***

Area Measurement of Irregularly Shaped Fabric  
Describing Retroreflection  
High Visibility Safety Apparel  
High Visibility Safety Apparel - Garment & Headgear  
High Visibility Safety Apparel - Retroreflection  
High Visibility Safety Apparel - Fabric  
High Visibility Safety Garments  
High Visibility Warning Clothing  
Photometric Characteristics of Retroreflectors  
Retro Reflective Material  
Retroreflective Sheeting for Traffic Control  
Visibility Accessories (Non-Professional Use)  
Visibility Clothing (Non-Professional Use)

### ***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  
Lead  
    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

## **TEST METHODS**

ASTM D1776; NFPA 1971 8.1  
GM 2746M Sections 4.3, 4.4, 4.5, 5.1, 5.4, 6.1, 6.2, 6.3

AATCC 30  
AATCC 100  
AATCC 147  
ASTM E2149

ASTM G21  
ASTM G22

ANSI 107  
ASTM E808  
CSA Z96-02  
ANSI-107, ANSI-207  
ANSI-107, ANSI-207  
ANSI 107, ANSI-207  
AS/NZ 1906.4  
BS EN 471:2003  
ASTM E809  
IMO Res A658 (16)  
ASTM D4956  
BS 13356  
BS 1150

ASTM D2257  
AATCC 20; ASTM D276  
AATCC 20A; ASTM D629  
IWTO 58  
AATCC 94  
ASTM D2130; IWTO 8; AATCC 20A

CPSC 16 cfr Part 1303  
CPSC-CH-E1001-08  
CPSC-CH-E1002-08  
CPSC-CH-E1003-09  
ASTM E1613

ASTM E1645

EPA 3050B  
EPA 3051A

EPA 3052

EPA 7000B





World Class Accreditation

The American Association for Laboratory 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 17025:2005 *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 5th day of September, 2008.



  
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Peter Abney

President & CEO  
For the Accreditation Council  
Certificate Number 2180.01  
Valid to September 30, 2010  
Revised August 30, 2010

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