



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

VARTEST LABORATORIES, INC.
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MECHANICAL

Valid To: August 31, 2012

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
Count of Woven Fabric	ASTM D3775
CPSC Small Parts Rule	CPSC 16 CFR Part 1501
Dynamic Fatigue	ASTM D4033
Fabric Thickness	ASTM D1777
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: Woven Fabric	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
Pile Retention	ASTM D 4685
Rain Test	AATCC 35
Random Tumble Pilling	ASTM D3512
Resistance to Damage by Flexing	ISO 7854
Seam Failure in Woven Fabric	ASTM D1683; NFPA 1971 8.14
Seam Strength	ASTM D3597
Slippage of Yarn in Seam	ASTM D434
Spray Test	AATCC 22; NFPA 1971 8.26
Strength/Elongation Grab Method	ASTM D5034; NFPA 1971 8.50
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 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
 Wyzenbeek Abrasion
 Yarn Number by Skein Method
 Yarn Number: Short Length Method
 Yarn Slippage Upholstery Seam
 Zipper Strength

TEST METHODS

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 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
 ASTM D4157; GM 9082P
 ASTM D1907
 ASTM D1059
 ASTM D4034-92 (Withdrawn 2001)
 ASTM D2061

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

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

Colorfastness:

Absorptive Capacity
 Colorfastness to Burnt Gas Fumes
 Colorfastness to Crocking: Flat
 Colorfastness to Crocking: Rotary
 Colorfastness to Dry-cleaning
 Colorfastness to Hot Pressing
 Colorfastness to Laundering
 Colorfastness to Light

 Colorfastness to Perspiration
 Colorfastness to Sea Water
 Colorfastness to Water
 Colorfastness to Water: Chlorinated Pool
 Colorfastness to Water Spotting

ASTM D1117-01 Section 5 (Withdrawn 2009)
 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 15; ISO 105-E04
 AATCC 106; ISO 105-E02
 AATCC 107; ISO 105-E01
 AATCC 162
 AATCC 104



TEST DESCRIPTION

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

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:

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
Vertical Flame - Protective Clothing
Vertical Natural Battings

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 Bacteria

TEST METHODS

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

ASTM D4151-92 (2001) (Withdrawn 2010)
BS 5852
BS 7175
BS 5852; IMO Res. A688 (17)
16 CFR Part 1610
16 CFR Part 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
ASTM F1358
CAL 117B

ASTM D1776; NFPA 1971 8.1

AATCC 30
AATCC 100
AATCC 147
ASTM E2149

ASTM G21
ASTM G22



TEST DESCRIPTION

TEST METHODS

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)

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

Lead 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

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 7000





The American Association for Laboratory Accreditation

World Class 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 29th day of October 2010.



A handwritten signature in black ink, reading "Peter Abaya".

President & CEO
For the Accreditation Council
Certificate Number 2180.01
Valid to August 31, 2012

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