



Standard Specification for Insect Screening and Louver Cloth Woven from Vinyl-Coated Glass Yarns¹

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This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers the requirements for vinyl-coated glass yarn insect screening and louver cloth.

1.2 This specification is intended to assist ultimate users by designating the sizes and types of these products that are generally available in the industry.

1.3 This specification shows the terminology and requirements for:

1.3.1 Commercial standard vinyl-coated glass yarn insect screening designed and woven primarily for installation in or on any dwelling, patio, screening enclosure, building, or structure for the purpose of keeping out flies, mosquitoes, and most insects.

1.3.2 Vinyl-coated glass yarn louver cloth used extensively in soffit and louver vents to keep out most large insects, birds, and airborne litter, while at the same time providing for adequate ventilation and air circulation.

1.4 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.5 The following precautionary caveat pertains only to the test methods portions, Sections 8-19, of this specification. *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

¹ This specification is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.18 on Glass Fiber and its Products.

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2. Referenced Documents

2.1 ASTM Standards:²

- D123 Terminology Relating to Textiles
- D1776 Practice for Conditioning and Testing Textiles
- D3374 Specification for Vinyl-Coated Glass Yarns
- D3773 Test Methods for Length of Woven Fabric
- D3774 Test Method for Width of Textile Fabric
- D3775 Test Method for Warp (End) and Filling (Pick) Count of Woven Fabrics
- D3776 Test Methods for Mass Per Unit Area (Weight) of Fabric
- D3786 Test Method for Bursting Strength of Textile Fabrics—Diaphragm Bursting Strength Tester Method
- D4028 Specification for Solar Screening Woven from Vinyl-Coated Fiber Glass Yarn
- D4372 Specification for Flame-Resistant Materials Used in Camping Tentage (Withdrawn 2002)³
- D4912 Test Method for Fabric Stability of Vinyl-Coated Glass Yarn Insect Screening and Louver Cloth
- D4929 Test Methods for Determination of Organic Chloride Content in Crude Oil
- D7018 Terminology Relating to Glass Fiber and Its Products

2.2 AATCC Standards:⁴

- Evaluation Procedure 1, Gray Scale for Color Change

2.3 ANSI/ASQC Standards:⁵

- ANSI/ASQC Z1.4 Sampling Procedures for Inspection by Attributes
- ANSI/ASQC Z1.9 Sampling Procedures and Tables for Inspection Variables for Percent Nonconforming

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.

⁴ Available from American Association of Textile Chemists and Colorists, P. O. Box 12215, Research Triangle Park, NC 27709.

⁵ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.



2.4 Federal Standards:⁶

CCC D-950 Specification, Dyeing and After Treating Processes for Cotton Cloths

Test Method Standard No. 191a, Textile Test Methods, Method 5872 Effect of High Temperature on Cloth Blocking

Standard 595A CHG Not 1, Color Volume 1

2.5 IFAI (Industrial Fabrics Association International)⁷

CPAI-84

3. Terminology

3.1 For all terminology relating to D13.18, Glass Fiber and Its Products, refer to Terminology D7018.

3.1.1 The following terms are relevant to this standard: atmosphere for testing textiles, insect screening, louver cloth, mesh.

3.2 For all other terms related to textiles, refer to Terminology D123.

4. Classification

4.1 Vinyl-coated glass yarn insect screening is produced in two basic classes and mesh to afford required strength and insect protection using yarns as directed in Specification D3374. These two classes are as follows:

4.1.1 *Class 1*—Insect screening woven from vinyl-coated glass yarn having a nominal thickness of 0.292 mm [0.0115 in.].

4.1.2 *Class 2*—Insect screening woven from vinyl-coated glass yarn having a nominal thickness of 0.330 mm [0.013 in.].

4.2 The mesh, width, and colors are listed in Table 1.

4.2.1 For vinyl-coated glass yarn insect screening not listed in Table 1, the mesh, width, and colors shall be agreed upon between the purchaser and supplier.

5. Sampling and Test Specimens

5.1 *Sampling*—On a continual basis, samples are selected randomly from each mesh and tested to insure compliance, unless otherwise agreed upon between the purchaser and the supplier.

5.2 *Test Specimens*—For insect screening or louver cloth appearance, width, and length testing, a roll shall serve as the test specimen. For other properties, take the test specimen(s) from the roll. No specimen shall be taken closer than 25 mm [1 in.] from the edge or 0.9 m [1 yd] from the end of the roll.

REQUIREMENTS

6. General Requirements

6.1 Material:

6.1.1 *Workmanship*—Insect screening or louver cloth shall be made utilizing input yarns that meet the requirements specified in Specification D3374. Products may contain a maximum of one defect in the filling direction affecting less than 50 lineal mm [2 lineal in.]. Examples of defects are listed in Table 2.

6.1.2 *Plasticizers*—The material used to coat or impregnate the fibrous glass yarn shall be a compound of polymerized or copolymerized vinyl chloride resin, plasticized with phosphate or phthalate ester plasticizers exclusively, pigmented and stabilized to meet the requirements herein.

6.1.2.1 *Optional Plasticizer*—At the supplier's option, plasticizers other than phosphates and phthalates may be used provided the color is not affected and the coating compound is treated with solubilized copper 8 quinolinolate which is listed as inhibitor (e) in Federal Standard CCC-D-950. The amount of fungicide shall be based on the nonvolatile content of the coating. The coating compound shall be chemically analyzed for copper 8 quinolinolate content in accordance with Federal Standard CCC-D-950.

6.1.3 *Color*—The maximum and minimum shades limits shall be defined by color designations listed in Federal Standard 595A as agreed upon between the purchaser and supplier.

6.1.3.1 The color designated grey shall fall between No. 36492 and No. 36173 as listed in Federal Standard 595A.

6.1.4 *Selvage*—Vinyl-coated glass insect screening and louver cloth may be supplied with or without selvages as agreed between the purchaser and supplier.

6.1.5 *Yarn Splices*—Vinyl-coated glass yarn splices shall be permitted provided they show no tails and do not exceed 25 mm [1 in.] in length. Yarn splices in the insect screening or louver cloth shall not exceed 15 per standard 30 m [100 ft] roll, and no more than one splice shall occur in any 930 cm² [1 ft²] of product.

TABLE 1 Generally Available Mesh, Widths, and Colors

Product	Class	Nominal Yarn Diameter, µm [in.]	Standard Construction Warp by Fill Mesh/25.4 mm [Mesh/1 in.]	Standard Widths		Colors
				mm	in.	
Insect screening	1	292 [0.011]	18 × 16	610, 762, 813, 914, 1067, 1219, 1524, 1829, 2134	24, 30, 32, 36, 42, 48, 60, 72, 84	gray, charcoal
	2	330 [0.013]	18 × 14	914, 1219, 1524, 1829, 2134, 2438, 2743	36, 48, 60, 72, 84, 96, 108	gray, charcoal
	2	330 [0.013]	18 × 14	914, 1219, 1829, 2134	36, 48, 72, 84	aqua
	2	330 [0.013]	20 × 20	914, 1219, 1524, 1829, 2134	36, 48, 60, 72, 84	gray, charcoal
	2	330 [0.013]	Less than 12 × 12	152, 203, 305, 610, 914, 1219	6, 8, 12, 24, 36, 48	gray, charcoal

⁶ Available from General Services Administrations, Specification and Consumer Information Distribution Section (WFSIS), Washington Navy Yard, Bldg. 197, Washington, DC 20407.

⁷ Available from Industrial Fabrics Association International, 350 Endicott Bldg., St. Paul, MN 55101.

TABLE 2 Examples of Defects^{A,B}

Bias or bowed filling:	Slack or tight selvage ^{A,B}
For widths ≤ 1220 mm [48 in.] ≥ 13 mm [0.5 in.]	Splice—more than one in a 300 mm ² [1 ft ²] area ^B
For widths > 1220 mm [48 in.] ≥ 25 mm [1.0 in.]	Splice more than 25 mm [1 in.] in length ^B
Broken or missing strand (end or pick), ^{A,B}	Splice not well made and showing tails ^B
Damaged selvage extending into the body of the screening ^B	Spot, stain, or streak ^{A,B}
Heavy strand ^{A,B}	Thin strand ^{A,B}
Jerked-in filling, slough-off, or kinky filling ^{A,B}	Tight strand (end or pick) ^{A,B}
Color bands ^B	Uncoated yarns ^B

^A For definitions of terms used in this table, refer to Terminology D123.

^B At normal inspection distance approximately 900-mm [3 ft].

6.2 *Put-Up*—Vinyl-coated glass yarn insect screening and louver cloth shall be put-up on rolls that may be placed in containers whose dimensions shall be agreed upon between the purchaser and the supplier.

7. Physical Requirements

7.1 *Appearance*—Unless otherwise agreed upon between the purchaser and the supplier, a roll shall be defective if it contains two or more defects as described in 6.1.1.

7.2 *Mesh*—The standard average mesh shall be approximately even-spaced as specified in Table 1 ±0.5 mesh per 25 mm [1 in.]. There are no tolerance requirements within 13 mm [0.5 in.] of the selvage.

7.3 *Roll Length*—Each roll of insect screening or louver cloth complying with Specification D3656 shall contain 30 linear m −0, +0.6 m [100 linear ft −0, +2.1 ft].

7.4 *Width*—The standard average roll width shall be as specified in Table 1 +7 or −0 mm [+0.25 in. or −0 in.].

7.5 *Mass per Unit Area*—The minimum average mass per unit area for each class shall be as specified in Table 3.

7.6 *Flame Resistance*—There shall be no propagation of flame along any specimen for longer than 10 s after removal of the flame source and no single specimen may propagate flame along its entire length in any time increment.

7.7 *Fabric Stability*—The yarns shall be bonded at each contact point. The fabric stability of the finished product shall be determined in accordance with Test Method D4912 and meet the requirements as specified in Table 3.

7.8 *Bursting Strength*—The minimum average bursting strength of the finished product in its original state and after 480 h of exposure to color stability after accelerated weathering as directed in Section 19 shall be as specified in Table 3.

7.9 *Stiffness Index*—The minimum and maximum average stiffness values are referenced in Table 4.

7.10 *Color Stability after Accelerated Weathering*—The change from the original color of the standard gray and charcoal, after 480 h of accelerated weathering exposure shall be no greater than step 3, and after 960 h of accelerated weathering exposure shall be no greater than step 2, on the AATCC Gray Scale for evaluating change in color.

NOTE 1—Use of other types of weathering apparatus may give weathering characteristics that are not equivalent to the preferred apparatus.

7.10.1 Exposure periods and acceptable changes in color other than the standard gray and charcoal shall be as agreed upon between the purchaser and the supplier.

7.11 For vinyl-coated glass yarn insect screening and louver cloth not listed in Table 1, the physical properties shall be agreed upon between the purchaser and the supplier except as noted in 6.2.

TABLE 3 Minimum Sample Average Mass and Strength Properties

Property	Insect Screening		Louver Cloth	
	Class 1	Class 2	Class 2	Class 2
	18 × 16 Mesh/25.4 mm [1 in.]	18 × 14 Mesh/25.4 mm [1 in.]	20 × 20 Mesh/25.4 mm [1 in.]	8 × 8 Mesh/25.4 mm [1 in.]
Mass per unit area, g/m ² [oz/yd ²]	102 [3.0]	146 [4.3]	176 [5.2]	68 [2.0]
Fabric Stability, 50 mm, N [2 in., lbf]				
Warp	36 [8]	44 [10]	53 [12]	22 [5]
Fill	27 [6]	36 [8]	44 [10]	22 [5]
Minimum average bursting strength				
before and after 480-h exposure ^A	448 [65]	690 [100]		
kPa [psi]				

^A After 480-h exposure as directed in Section 17.

TEST METHODS

8. Conditioning

8.1 Condition the laboratory samples without preconditioning for a period of at least 5 h in the atmosphere for testing glass textiles as directed in Practice D1776, unless otherwise specified.

TABLE 4 Nominal Stiffness

	Stiffness MG ^A	
	Min	Max
Insect screening		
Class 1	40	120
Class 2	60	180
Louver cloth		
Class 2	40	120

^A These values are for design or informational purposes only.



NOTE 2—In any event, 24 h is considered ample exposure time to bring the samples to moisture equilibrium.

9. Put-Up

9.1 Verify that the rolls and shipping containers conform to the inspection agreement in the purchaser's plant.

10. Appearance

10.1 Before doing any other testing, determine the appearance as directed in the procedure described in Specification D4028. Count all defects of the types as described in 6.1.1 and in Table 2 regardless of their proximity to each other, except where two or more defects represent a single local condition in the screening. In such cases, count only the most serious defect.

11. Mesh

11.1 Determine the mesh as directed in Test Method D3775. Count the number of warp yarns in 25 mm [1 in.] of fabric width in five randomly designated places across the width of each roll. Count the number of filling picks in 25 mm [1 in.] of fabric length in five randomly designated places in each laboratory sample.

12. Roll Length

12.1 Determine the length for each roll to be tested using the clock method as directed in Test Method D3773, Option C.

13. Width

13.1 Determine the fabric width as directed in Test Method D3774, Option A. Measure the width of the screening at five evenly spaced points along the length of the roll. Make no measurements within 0.9 m [1 yd] of the ends of the roll.

14. Mass per Unit Area

14.1 Determine the mass per unit area of test specimens taken from the roll as directed in Test Method D3776, Option C.

15. Flame Resistance

15.1 Determine the flame resistance as directed in the procedure for wall and top materials in Test Method D4372 or CPAI Test Method 84 (CPAI-84). Test eight specimens from each roll to be tested, with four from the warp and four from the filling direction of the material. Cut the specimens 70 by 305 mm $\pm$ 2 mm [2.75 by 12 in. $\pm$ 0.062 in.] with the long dimension of the specimen in the direction to be tested and with different warp ends in each of the warp specimens and different filling picks in each of the filling specimens.

16. Fabric Stability

16.1 Test 10 specimens from each roll to be tested as directed in Test Method D4912. Cut the specimens 50 by 125 mm $\pm$ 2 mm [2 by 5 in. $\pm$ 0.062 in.] with the long dimension of the specimen in the direction to be tested and with different warp ends in each of the warp specimens and different filling picks in each of the filling specimens.

17. Bursting Strength

17.1 *General*—Determine the bursting strength as directed in Test Method D3786 using a Model A, motor-driven, bursting apparatus consisting of the following:

17.1.1 Means for clamping the test specimen between annular, plane surfaces having fine concentric tool marks to minimize slippage. The upper clamping platen shall have a diameter of 9.5 mm [3.75 in.], a thickness of 9.5 mm [3.75 in.], and a circular opening 31.50 ± 0.025 mm [1.240 ± 0.001 in.] in diameter. The lower edge of the opening (side in contact with the material) shall have a 0.064-mm [0.0025-in.] radius. The lower clamping surface (diaphragm plate) shall have a thickness of 5.56 ± 0.08 mm [0.219 ± 0.003 in.] with an opening 31.50 ± 0.02 mm [1.240 ± 0.001 in.] in diameter. The upper edge of the opening (in contact with the material) shall have a 0.4-mm [0.016-in.] radius, and the lower edge of the opening (in contact with the rubber diaphragm) a radius of 3.2 mm [0.125 in.] to prevent cutting the rubber when pressure is applied. The upper clamping ring shall be connected to the clamping mechanism through a swivel joint to facilitate an even clamping pressure. The openings in the two clamping plates shall be concentric to within 0.13 mm [0.005 in.] and their clamping faces shall be flat and parallel.

17.1.2 Prepare a gasket for each the upper and the lower clamping plates having an opening that is 1.6 mm [0.062 in.] larger than the aperture openings of the upper and lower clamping surfaces. The recommended gasket material is 1.6-mm [0.062-in.] No 777 C. I. rubber sheet (hardness of 80 ± 5 Type A Durometer reading). Cement gaskets to the upper and lower plates using a rubber adhesive.

17.1.3 Equip the machine with a Type D or C/R diaphragm requiring a pressure of not less than 160 kPa [23 psi] nor more than 210 kPa [30 psi] to distend to a height of 9.5 mm [0.375 in.] above the diaphragm plate.

17.1.4 A means of forcing liquid into the pressure chamber below the diaphragm at a steady rate of 170 mL/min. This pressure shall be generated by a motor driven piston forcing a liquid glycerin into the pressure chamber of the apparatus.

17.2 Procedure:

17.2.1 Cut at least six specimens of sufficient size from each laboratory sampling unit, such that the smallest dimension is at least 110 mm [4.25 in.].

17.2.2 Expose one specimen from each exposure condition in Section 19. Retain one specimen for control (unexposed) test.

NOTE 3—It is advisable to expose extra specimens in case slippage occurs during the bursting test.

17.2.3 After exposure is completed, test both the exposed and unexposed control specimens. Clamp the specimen uniformly with a minimum pressure of 700 kPa [100 psi]. Apply

TABLE 5 Coefficients of Variation, Vinyl Coated Glass Yarn Insect Screening, Percent of Average, Burst Strength

	Single-Operator Component	Within- Laboratory Component	Between- Laboratory Component
Single-material	3.9	0.0	4.3
Multi-material	10.9	0.0	4.3

**TABLE 6 Critical Differences for the Conditions Noted, Vinyl Coated Glass Yarn Insect Screening, Burst Strength, 95 % Probability Level, Percent of Average^A**

Number of Observations in Each Average	Single-Operator Precision	Within-Laboratory Precision	Between-Laboratory Precision
Single-Material Comparisons			
1	10.9	10.9	16.3
3	7.7	7.7	14.3
5	4.9	4.9	13.0
10	3.5	3.5	12.5
Multi-Material Comparisons			
1	22.1	22.1	25.2
3	20.2	20.2	23.5
5	19.8	19.8	23.2
10	19.5	19.5	22.9

^A To convert the values of the critical differences to percent ignition loss, multiply the critical difference by the average of the two specific sets of data being compared and then divide by 100.

the bursting pressure at the specified rate until the specimen ruptures. Record the pressure required to rupture the specimen as the total bursting strength. Reject any tests if slippage in the clamp is observed and replace with another specimen.

17.3 Precision and Bias:

17.3.1 Summary—In 95 out of 100 cases when comparing two averages of three determinations each, the differences should not exceed 7.7 % of the average when all of the determinations are taken by the same well trained operator using the same piece of test equipment and specimens randomly drawn from the same sample of material but tested at different times. Larger differences are likely to occur under all other conditions. Sections 17.3.2-17.3.4 explain the basis for this summary and for evaluations made under other conditions.

17.3.2 Interlaboratory Test Data⁸—An interlaboratory test was run in 1986 in which randomly drawn specimens of 18-by-16 mesh vinyl-coated glass yarn insect screening were tested in each of four laboratories. Each laboratory used two operators, each of whom tested three specimens of each material at different times. The components of variance expressed as coefficients of variation are listed in Table 5.

17.3.3 Precision—For the components of variance reported in Table 5, two averages of observed values should be considered significantly different at the 95 % probability level if the difference equals or exceeds the critical differences listed in Table 6.

NOTE 4—Since the interlaboratory test included only four laboratories, estimates of between-laboratory precision should be used with special caution.

NOTE 5—The tabulated values of the critical differences should be considered to be a general statement particularly with respect to between-laboratory precision. Before a meaningful statement can be made about any two specific laboratories, the amount of statistical bias, if any, between them must be established, with each comparison based on recent data obtained on specimens taken from a lot of material of the type being evaluated and nearly homogeneous as possible and then randomly assigned in equal numbers to the two laboratories.

⁸ Supporting data have been filed at ASTM International Headquarters and may be obtained by requesting Research Report RR:D13-1077.

17.3.4 Bias—Test Method D3786 when used as directed in Specification D3656 has no bias since the value of bursting strength for measuring bursting strength of vinyl-coated glass insect screening and louver cloth has no bias because the value of bursting strength can be defined only in terms of a test method.

18. Stiffness Index

18.1 Scope—This test method provides a procedure for evaluating the stiffness of vinyl-coated glass yarn insect screening and louver cloth using a moving vane procedure.

18.2 Summary of Test Method—Samples of the vinyl-coated glass yarn insect screening or louver cloth to be tested are secured in a movable clamp. The clamped specimen is moved against a frictionless vane having a known resistance to an applied force. The force required to move the specimen through the vane is used to calculate the stiffness index.

18.3 Significance and Use—This method for stiffness is not generally used for acceptance testing. The values obtained are used to assist the fabricator by providing an indication of the capacity to conform to bending during fabrication of window assemblies.

18.3.1 When Specification D3656 is used for acceptance testing of commercial shipments, such as in an applicable purchase order or contract, the purchaser and the supplier should conduct comparative tests as directed in 18.3.1.1.

18.3.1.1 In cases of a dispute arising from differences in reported test results when using the procedure for stiffness index in Specification D3656 for acceptance testing of commercial shipments, the purchaser and the supplier should conduct comparative tests to determine if there is a statistical bias between their laboratories. Competent statistical assistance is recommended for the investigation of bias. As a minimum, the two parties should take a group of test specimens which are as homogeneous as possible and which are from a lot of material of the type in question. The test specimens should then be randomly assigned in equal numbers to each laboratory for testing. The average results from the two laboratories should be compared using appropriate statistical analysis and an acceptable probability level chosen by the two parties before the testing begins. If a bias is found, either its cause must be found and corrected or the purchaser and the supplier must agree to interpret future test results with consideration of the known bias.

18.4 Apparatus—A stiffness index tester consisting of a balanced pendulum or pointer that is center-pivoted and weighted below its center. The pointer shall move parallel to a sine scale graduated in both directions from its center. The tester shall have an arm with a clamp for holding the specimen that is capable of moving in line with the pointer and shall be capable of being rotated left or right by a capacitor-type synchronous motor, geared to operate at a rate equal to 2 rpm. The clamp shall be capable of moving on the arm to allow adjustment of the gage length. The arm and clamp assembly shall be of such length that when positioned directly over the pointer in a vertical position it will provide for a distance of 25 mm [1 in.] between the bottom edge of the clamp and the top

edge of the pointer. The tester shall have forward and reverse switches controlled by two buttons mounted on the base.

18.4.1 The pointer shall be capable of having a mass attached either 25 mm [1 in.], 50 mm [2 in.], or 100 mm [4 in.], as required, directly below the center line of the pointer pivot point.

18.5 *Test Specimens*—Cut three specimens from each roll to be tested 25 by 38 mm [1.0 by 1.5 in.] with the longer dimension parallel to the selvage. Each specimen shall contain the number of ends corresponding to one half the warp mesh. Place specimens on a flat surface until free of distortion prior to testing.

18.6 *Procedure*—Level the test instrument. Set the distance between the lowermost edge of the clamp and the uppermost edge of the pointer while both are in a vertical position to 25 mm [1 in.].

18.6.1 Select and attach an appropriate mass to one of the three positions on the pointer so that the deflection of the pointer is within the scale of the tester for the specimen to be tested. The selected mass shall provide a pointer deflection between 10 and 90 % of the scale for the material to be tested.

18.6.2 Place the specimen in the clamp of the tester, seated fully, and located centrally, so the bottom edge is parallel with the top of the vane of the pointer and overlaps the top edge of the vane by 13 mm [0.5 in.].

18.6.3 Depress the right or left button to force the free end of the specimen against the vane. Record the scale reading at the point the end of the specimen clears the vane. Depress the opposite button to force the free end of the specimen against the vane in the opposite direction and record the scale reading after the end of the specimen clears the vane.

18.6.4 Calculate the average stiffness to the nearest mg.

18.7 *Report*—State that the specimens were tested for stiffness as directed in this specification. Describe the material sampled and the method of sampling used.

18.7.1 Report as the stiffness index, the average stiffness to the nearest milligram for each roll tested.

18.7.2 Report, for the lot average, the average stiffness index for all rolls tested.

18.8 *Precision and Bias*—No justifiable statements can be made either on the precision or on the bias of Specification D3656 for measuring stiffness since the result merely states whether there is a conformance to criteria for success specified in the procedure.

19. Color Stability to Accelerated Weathering

19.1 Determine the color stability to accelerated weathering as directed in Test Method **D4929**, Cycle A, using one appropriate size specimen for a total exposure of 480 h and one appropriate size specimen for a total exposure of 960 h for each roll to be tested.

19.1.1 Rate the specimens for color change after exposure in accordance with AATCC Evaluation Procedure 1.

CONFORMANCE AND INDEXING

20. Conformance

20.1 The purchaser and the supplier shall agree on a procedure to establish conformance, including control charts furnished by the supplier or a sequential sampling plan.

20.2 If the test results for one or more characteristics do not conform to the requirements, take a new sample. Test the new sample for the characteristic(s) that did not conform to the requirements in the first test and average the results of the first and second samples as if they were one test of double the original number of specimens. If the new average(s) conform(s) to the specified requirements, the roll shall be considered acceptable.

20.3 If the test results obtained as directed in **20.2**, do not conform to the specified requirements, the lot shall be considered unacceptable.

21. Keywords

21.1 appearance; bursting strength; colorfastness; fabric stability; flammability; insect screening; louver cloth; mass per unit area; stiffness; width

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