



RESISTANCE TO LINT PICKUP AND LINT RETENTION OF FABRICS

Application

This test method determines the lint resistance and lint retention on automotive seat fabrics.

This test uses a rotating platform to rub the test fabric against a reference piece of material under a fixed weight. The platform rotates on a 19 mm radius at approximately 58 revolutions per minute.

Apparatus and Materials Required

1. Pilling Tester

The pilling tester is described in ASTM D3511 and modified to hold the test fabric to the rotating platform. The round shaped lint cloth holder weight is 660 +/- 5 g, see Fig 1a.

Source: Schap Specialty Machine, Inc.
17309 Taft Road
Spring Lake, MI 49456
Phone (616) 846-6530
Fax: 616-846-6675

Email: info1@schapmachine.com

2. Vacuum cleaner, canister type, with a soft brush attachment

Note: The vacuum used with the Taber test machine is acceptable when set to the highest power setting. The soft brush attachment shall have approximately 45 mm long bristles.

3. Lint Cloth: Bleached Cotton style # 425.

Source: Test Fabrics, Inc.
PO Box 3026
415 Delaware Ave
West Pittston, PA 18643 USA
Phone: (570) 603 0432
Fax: (570) 603 0433
Email: info@testfabrics.com or testfabrics@aol.com
www.testfabrics.com

Date	Action	Revisions	Rev. 1
2015 05 28	Revised	See Summary of Revisions	L. Schmalz, NA
2013 01 22	Activated	Maria Dumitrescu; Mark Montgomery; Marcelo Fontes, Cheney Chen	

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Conditioning and Test Conditions

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 °C and 50 +/- 5% relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

Procedure

1. Cut two fabric specimens (see Fig 2)
2. Mount the fabric specimens face up on the lower wood board of the pilling tester, see Fig 3. Tightly secure the specimens to the board to prevent wrinkling.
3. Mount the lint cloth on the round shaped holder and secure with the rubber "O" ring as it shows in Fig 1b. Place the holder on the station with the fabric specimen. (see Fig 4)
4. Start the machine to rub the lint cloth on the face fabric for 30 seconds. Lint cloth must be replaced after every test.
5. Remove tested specimens from the wood board. Evaluate the tested specimen lying flat on the seat of an office chair and then pin it to the seat back. Report both the horizontal and vertical ratings. Label this test specimen "**lint pickup**".
6. Vacuum the second specimen using 10 strokes (one stroke is the back and forth motion) with brush attachment. Evaluate the vacuumed specimen lying flat on the seat of an office chair and then pin it to the seat back. Report both the horizontal and vertical ratings. Label this test specimen "**lint retention**".

Evaluation

Compare the tested specimens to an untested fabric. Use the photographic standards on pages 5 and 6 to rate the pick up and lint retention specimens using the following scale:

Rating 4 - No linting –less than 5 cotton fibers left on the fabric surface

Rating 3 - Slight - slight cotton fiber **left** on the fabric surface

Rating 2 - Moderate - large amount of fiber left on the fabric surface and/or a change in the fabric Appearance

Rating 1 - Severe- clumps of fibers entangled with the fabric surface or complete coverage of fabric surface by fiber

Report the Rating for the lint pickup specimen and lint retention specimen.

Chemicals, materials, parts, and equipment referenced in this document must be used and handled properly. Each party is responsible for determining proper use and handling in its facilities.

Summary of Revisions

2015 05 28

- Removed from step 5 gently shake off the excess fibers and added statement on evaluating the sample flat and horizontal by pinning to an office chair
- Added to step 6 statement on evaluating the vacuumed specimen on the vertical and horizontal by pinning to an office chair.
- Updated rating 4 from no cotton fibers to less than 5



Fig. 1a – Round shape holder for lint cloth



Fig. 1b – Mounted lint cloth on the round shape holder