

Random Tumble Pilling Tester

The industry standard for testing the pilling and fuzzing of fabrics



Applications

The Atlas Random Tumble Pilling Tester has long been the industry standard for determining the pilling and fuzzing characteristics of all fabric types. Fabric specimens form pills by a random rubbing motion produced by tumbling them in a chamber lined with abrasive material. This method, described in **ASTM D 3512** and other international test specifications, produces reliable results that correlate well with a fabric's end-use performance.



Digital Timer

Features

Multiple Models

Units are available with either two (Model PT-2) or four (Model PT-4) machined cast aluminum chambers.

Digital Timer

When testing is complete, an easy-to-read digital timer will stop the test and alert the operator with an audible signal.

Easy-To-Access Test Chamber

Test chamber may be viewed and accessed quickly through one test chamber door.

Operator Safety

A door interlock safety switch stops the unit when the door is opened.

Test Description

Specimens are tumbled in the test chamber by aluminum impellers rotating at a constant speed of approximately 1200 rpm for periods of up to 60 minutes. After each test period the specimen is removed, lightly cleaned and subjectively evaluated. Susceptible fabrics will develop lint pills typical of everyday wear. Users have also found high quantitative correlation for surface appearance, changes in appearance, scuffing, fuzzing and loss of color.



Test Chamber

Air Injection System

Certain fabrics, generally those that are heavy or stiff, have the tendency to lay flat against the chamber wall. To move a specimen from this static position, an air injection system is used and is a standard feature with all models of the Atlas Pilling Tester. Facility supplied compressed air is injected and is controlled by a regulator and gauge supplied with the instrument. The pressure gauge for the air injection system is mounted on the front of the instrument control panel. The system can be deactivated for international test methods, which do not require air.

Liners

Atlas Cork Liners are supplied with each instrument and meet ASTM Test Specification F 104 for type P2117A material. The liners are sealed in polyethylene (50 per bag) to prevent aging and come ready-to-use. A liner is run 60 minutes on each side and is then discarded.

Options

Atlas offers three different impellers: French, German and U.S. standard (ATSM). The impellers pick up and tumble fabrics within the PT-2 and PT-4 chambers.



Standard, German and French Impellers

Specifications

Two Chamber (PT-2)

Dimensions: 47 cm x 68 cm x 39 cm
(18.5" W x 26.8" H x 15.5" D)
Weight: 45 kg (100 lbs)
Electrical: 120 V/60 Hz, 10A
230 V/50 Hz, 5A
Air: 0.9 L/s @ 21 kPa
(2 cfm @ 3 psi)

Four Chamber (PT-4)

Dimensions: 47 cm x 68 cm x 39 cm
(18.5" W x 26.8 H x 15.5" D)
Weight: 57 kg (125 lbs)
Electrical: 120 V/60 Hz, 10A
230 V/50 Hz, 5A
Air: 1.9 L/s @ 21 kPa
(4 cfm @ 3 psi)



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