



TumblePill

Random Tumble Pilling Tester

The TumblePill tests textiles for pilling. It simulates the friction and tumbling of actual use. The test results are more reliable. The impeller can be disassembled and replaced with different standard shapes. The TumblePill runs quietly. It can connect to smartphones and computers via IoT. It can also connect to the lab's LIMS for automatic report output.

Test Principle: Under the specified conditions, the rotating impeller will tumble the sample in a test bin lined with a material. And the sample will be randomly rubbed by this lining material under the rotating. After a set time, we will visually assess the fabrics' pilling and felting performance.

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More reliable test results

The sample in the test chamber can tumble at a high, constant speed. The compressed air will flow smoothly to the chamber to prevent the sample from sticking to the cylinder walls. The liner surface is flat and closely adhered to the walls to avoid movement. All this guarantee more reliable test results.

The impeller can be taken apart. It can be replaced with different shapes to meet various standards.

Impellers of different shapes can be fitted to meet ISO, ASTM, JIS, GB/T, and other standards.

Low noise running

The impeller is rotating smoothly with no abnormal noise. Very friendly for labs.

Convenient for observation

The transparent acrylic window and each chamber has light. They provide a good view of the sample test status.

Smart Tumble Pilling Test

The instrument connects to the SmarTexLab APP via IoT on a smartphone or computer. It can also connect directly to ERP/LIMS. The operator can remotely monitor the status of multiple tests on smartphone. He can also modify the test requirements, get a reminder before the test ends, and stop or repeat the test. The operator can use online chat to get quick support from ChiuVention customer service. Also, receive reminders to calibrate, maintain, and replace consumables on the instrument. Lastly, perform OTA remote upgrades regularly.



Power

220/110V 50/60Hz



Weight

about 70kg



Dimension

560*360*620 mm(L*W*H)

Specification

Number of test chambers	4
Sample size	square 100×100 mm; or round 100cm ²
Test chamber specification	Diameter Φ 146±1mm Depth 152.4±1mm
Impeller length	L=121mm
Impeller shaft diameter	Φ 12.7mm
Rotation speed	1200r/min (speed adjustable)
Compressed air pressure	14kPa~21kPa

Standard Accessories & Consumables

Sampling board	1 pc	105 *105 mm
Gas pipe	1 pc	2m Φ8 mm
Leather belt	2 pcs	
Impeller 1	4 set	Apply for ASTM, JIS

Optional Accessories & Consumables

Impeller 2	1 set	Apply for JIS
Impeller 3	1 set	Apply for ISO, GB/T
Cork liner	pack of 50	
Cotton sliver	1yds/pack	
Pilling Standard Photograph	pack of 5	
Dust collector	1 pc	

Standard

ASTM D3512

Optional Standard

ISO 12945-3

JIS L 1076 D

GB/T 4802.4