

ISO 12945-2 ASTM D4966 Martindale Abrasion And Pilling Tester



I. Introduction

1. Use:

This machine is suitable for testing woven fabrics, knitted fabrics, pile fabrics with a height of 2mm or less, non-woven fabrics, coated fabrics (ie, woven fabrics and knitted fabrics, and the coated parts are formed on the fabric surface). The abrasion resistance of the continuous film (sample damage, mass loss, appearance change), pilling performance.

2. Principle:

Under the specified pressure, the circular specimen is rubbed with the same fabric or wool fabric abrasive fabric for a certain number of times with the Lissajous pattern trajectory, and the wear resistance and the pilling performance of the specimen are examined.

3. According to the standard:

This tester is manufactured according to ISO 12947-1~3, ISO 12945-2, ASTM D4966 and other standards.

II. Features

- Samples are rubbed against known abrasent at low pressures, its degree of abrasion and pilling can be compared with standard parameter evaluation.
- The instruments used movable fastening components of the sample, you can always check out a sample of friction without affecting the other specimen
- Not only the sample quickly, independent testing, also guarantees a friction over the accuracy of measurement is BSEN ISO12947-1: 1999 recognized fastening methods.
- The tester is equipped with electronic preset batch counter, timer and pooled sample clips and load device (compatible with international testing standards) Provides 4, 6, head of the model.

III. Testing standards

ASTM 4966/4970 IS 12673, PR EN ISO 12947-1, PR EN ISO 12945-2, SATRA TM31, ISO 20344



IV. Instrument specifications

Project	Specification
Test station	4 stations
Wear resistance stroke	60.5±0.5mm

Pilling stroke	24±0.5mm
Test speed	External wheel: 47.5±2.5r/min, inner wheel: 44.5±2.4r/min
Test pressure Wear resistance	595 ± 7g / 795 ± 7g, hair ball: 415 ± 2g
Flattening weight	2.5±0.5kg, diameter 120±10mm
Controller	PLC touch screen control
Volume (WxDxH)	48x50x36cm
Weight (approx.)	≈50Kg
Power supply	1φ AC 220V 3A



Please review the video of the Martindale Abrasion And Pilling Tester as below link:

<https://youtu.be/GlurpqYDoHk>