

ABRASION AND PILLING TESTER

TYPE MAD-4-B / MAD-6-B AND MAD-C-4-B / MAD-C-6-B

GENERAL DESCRIPTION

Lab equipment with six positions for physical abrasion and pilling tests by friction (type Martindale), with controller for friction cycles.

Several friction movements according to the tests / norms.

Adjustable pressure: 9kpa or 12 kpa, or additional 260g.

According to ASTM D 4966-98 norm for abrasion tests on Martindale, and ASTM D 4970-05 norm for pilling tests.

There is a second set of accessories for ISO 12945-2 norm pilling and surface fuzzing trials.

Available with 4 positions also: type MAD-4-B.

Special types MAD-C-4-B y MAD-C-6-B to attend abrasion trials for footwear articles (ISO 12947-1, DIN EN 13520 : 2001 + A1 : 2004).



TECHNICAL DATA -TYPE	MAD-4-B/MAD-C-4-B	MAD-6-B/MAD-C-6-B
Number of samples	4	6
Sample size (Ø)	38 / 140 mm	38 / 140 mm
Sample size (Ø) for ISO 12945-2	140 mm	140 mm
Number of cycles	1 - 9.999.999	1 - 9.999.999
Kind of movements	abrasion (lissajous), pilling, straight line	
Power / electric feeding	0,5 kW / 1 x 220 V	0,5 kW / 1 x 220 V
Dimensions	L 78 x P 48 x A 39 cm	L 78 x P 48 x A 39 cm
Weight	47 kg	49 kg

ADDITIONAL INFORMATION

Lab equipment (type Martindale) to determine abrasion resistance and pilling effect (formation of pills) on textile fabrics, for up to six samples.

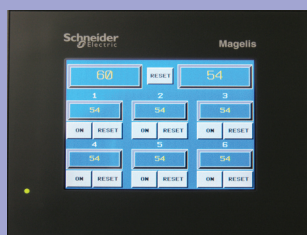
The samples are put on holders and will be kept under friction with 9 kpa or 12 kpa (kilo pascal) pressure, moved in several directions (vertical, horizontal, diagonal, "lissajous") according to the test / norm.

The kind of movement for each the test/norm is adjusted by changing mechanically the position of three guiding pins.

The number of friction cycles is programmed on touch screen controller according to the test / norm.

The test can be interrupted for one of the samples, removing it during the trial, and inserting it back later on during the test, when its individual cycle counter will be reactivated.

Cycle counting control is made by digital counter with touch screen display, which indicates the cycle counter for each individual sample (position).



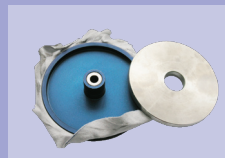
touch screen cycle counter



guiding pins for movement

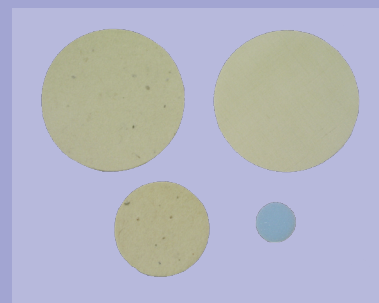


standard sample holder & 12 / 9 kPa load pieces

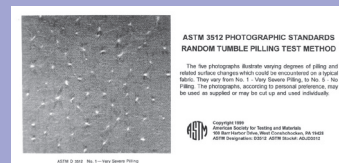


ISO 12945-2 sample holder & 260g load piece

Accessories:



wool felt (Ø 140 mm)
wool felt (Ø 90 mm)
wool abrasant fabric (Ø 140 mm)
and foam backing (Ø 38 mm)



set of 5 photographic standards
ASTM 3512 to evaluate pilling rate

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