

ABRASION AND PILLING TESTER

TYPE MAD-4-B / MAD-6-B / MAD-9-B

GENERAL DESCRIPTION

Lab equipment with four, six or nine 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 and ISO 12947-1/2/3/4 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.

Special types MAD-C-4-B, MAD-C-6-B and MAD-C-9-B with stainless steel cover to attend abrasion trials for footwear articles with humid trials (ISO 12947-1, DIN EN 13520 : 2001 + A1 : 2004)



TECHNICAL DATA -TYPE	MAD-4-B	MAD-6-B	MAD-9-B
Number of samples	4	6	9
Sample size (Ø)	38 / 140 mm		
Sample size (Ø) ISO 12945-2	140 mm		
Number of cycles	1 - 9.999.999		
Kind of movements	abrasion (lissajous), pilling, straight line		
Power / electric feeding	0,5 kW / 1 x 220 V		
Dimensions	L 78 x W 48 x H 39 cm	L 100 x W 70 x H 39 cm	
Weight approx.	47 kg	49 kg	53 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

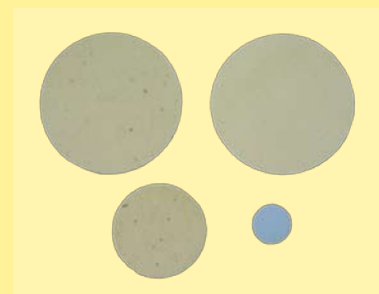


standard sample holder & 12 / 9 kPa load pieces

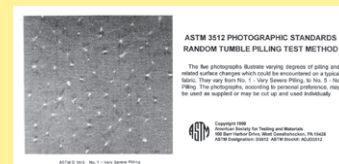


ISO 12945-2 sample holder & 260g load piece

Accessories:



wool felt (Ø 140 mm)
wool felt (Ø 90 mm)
wool abrasant fabric (Ø 145 mm)
and foam backing (Ø 38 mm)



set of 5 photographic standards
ASTM 3512 to evaluate pilling rate

Werner Mathis AG

Rütisbergstrasse 3
CH-8156 Oberhasli/Zürich, Switzerland
Telefon 41(0)44-852 5050
Telefax 41(0)44-850 6707
E-Mail info@mathisag.com
Homepage www.mathisag.com

Aparelhos de Laboratório Mathis Ltda.

Estrada dos Estudantes, 261
06707-050 Cotia - SP, Brasil
Tel: 55 (0)11 3883-6777
Fax: 55 (0)11 3883-6750
E-mail: mathis@mathis.com.br
Site: www.mathis.com.br