

Martindale Abrasion and Pilling Testers

TEST INSTRUMENT




SDL ATLAS®
TEXTILE TESTING SOLUTIONS

Martindale Abrasion and Pilling Testers

INNOVATIVE INSTRUMENT

abrasion, n — the wearing away of any part of a material by rubbing against another surface.

pills, n — bunches or balls of tangled fibers which are held to the surface of a fabric by one or more fibers. (Compare fuzz ball.)

Abrasion and pilling are two common defeats found on fabrics and garments. It is unavoidable that human body has movement in daily life which caused different levels of abrasion and pilling with other objects. SDL Atlas provides a wide variety of industry standard and innovative instruments to predict and grade a fabric's propensity to abrasion or pill.

Martindale Abrasion and Pilling Testers

Martindale Abrasion and Pilling Testers are widely used for testing the abrasion and pilling resistance of all types of fabric structures. Specimens are rubbed against known and standardized abrasion and pilling test heads at low pressures and in continuously changing direction so the amount of abrasion or pilling is compared against standard parameters. The design of the SDL Atlas Martindale allows removal of individual sample holders without lifting up the entire top motion plate. The tester is available with 4, 6, 8 or 9 test positions. All models come with a user friendly programmer that includes preprogrammed batch and totalizing counters, individual station counters, a 4 position parking function, and 4 selectable test speeds. The standard testers come with sample holders, 9 and 12kPa weights. For a complete list of optional accessories and consumable supplies that are needed for specific standards visit [SDL Atlas.com](http://SDLAtlas.com) or see the current SDL Atlas catalogue for details and ordering information.





- ◀ Available with 4,6,8 or 9 test stations and enhancement kits to fulfill a variety of testing requirements. 9 test station design increase productivity by enabling the user to run three full abrasion test sets at the same time.
- ◀ High cost efficient with 9 test stations increase productivity and compact size save laboratory bench space.

7" color touch screen control panel provides clear and user friendly operation process ▶



- ◀ Light motion plate (4.8kg) is easy for remove and no tools are required to switch the device between abrasion, pilling and crocking tests.

Quick change of motion ▶
without tooling required



SPECIFICATIONS

	M235	M235/3	M235/8	M235/9A
No. of test stations	4	6	8	9
Dimensions (L x W x H in mm)	665 x 540 x 340	880x 615 x 340		
Weight (kg)	72	115		
Power	110V/60Hz or 230V/50Hz			

STANDARDS

- ❑ ASTM D4966/D4970
- ❑ BS 5690/3424:Part 24(Method 27A)
- ❑ BS EN 388/530
- ❑ ISO 5470-2
- ❑ ISO 12945-2/12947-1/12947-2
- ❑ GB/T 4802.2/13775/21196-1/21196-2
- ❑ IWS TM 112/196
- ❑ IWTO-40
- ❑ J.I.S. L1096
- ❑ M&S P17/P19/P19C
- ❑ NEXT TM18/18a/18b/26
- ❑ SATRA PM31 (Including wet test)

ORDERING INFORMATION

	Standard		Optional Accessories
M235	4 positions Martindale	105149	Enhancement Kit (add one extra abrasion test position for 6 or 8 positions tester)
M235/3	6 positions Martindale	105148	ISO Pilling Test Accessories (single position)
M235/8	8 positions Martindale	105154	ISO Pilling Test Accessories (4 position)
M235/9A	9 positions Martindale	105155	ISO Pilling Test Accessories (6 position)
	9 kpa Top Weight with spindle	105156	ISO Pilling Test Accessories (8 position)
	12 kpa Top Weight with spindle	105157	ISO Pilling Test Accessories (9 position)
	Set of specimen holder	105151	Sock Abrasion Attachment (single position)
	Clamping Ring for Abrasion Table	105150	12 kpa Weight (each)
	Pen for Lissajous Check	103911	38mm Dia-cutter
	Pressing Weight for Specimen	103916	140mm Dia-cutter
	Spare Fuse and Power Cable	201017	SM25 Abradent Fabric
	CD with Instruction Manual	202342	SM25 Up Selected Abradent Fabric
		200910	Felt Discs 90 mm Diameter
		105136	Sample Retaining Rings
		201016	EMPA Photographs Knitted
		201015	EMPA Photographs Woven
		201013	SM 50 Photographs 4 sets
		200972	Backing Foam
		200971	Felt Discs (woven) 140 mm Diameter
		200947	Felt Piece (woven) 1 m X 1.5 m
		200944	Standard Abrasion Sheets F2
		200943	Silicon Carbide Sheets P180G
		201077	Trizact Synthetic Abrasion Discs – 5 inch (125 mm diameter) 35 Microns Self-adhesive. For controlled abrasion on Martindale Tester for synthetic fabrics (pack of 25 green).
		203289	Trizact Synthetic Abrasion Discs – 5 inch (125 mm diameter) 35 Microns Self-adhesive. For controlled abrasion on Martindale Tester for synthetic fabrics (pack of 25 orange)

TOTAL CONSUMABLES SOLUTIONS

The Complete Source for Textile Testing Consumables

Today, standardized consumable materials play a critical role in many textile testing applications. Whether you need fabric, detergent or custom-prepared testing material, you can rely on the SDL Atlas testing and consumables divisions to provide a single source solution. Beyond consumables fulfillment, we offer technical expertise to help make your testing efficient, precise and compliant.



- ⚡ Textile Innovators consumables including: multi-fiber, laundering, crockmeter accessories, bulk testing fabrics and wash ballast
- ⚡ SDC consumables including: multi-fiber fabrics, detergents and rating and grading scales
- ⚡ AATCC consumables including: multi-fiber fabrics, detergents and rating and grading scales
- ⚡ WFK consumables including: soil fabrics, detergents and laundry testing
- ⚡ SDL Atlas consumables including: Martindale testing accessories and cork liners



Our extensive inventory of consumables meet all of the accepted test methods and standards so a lab can be assured of a high quality and steady supply of all the consumables they need from a globally recognized source. We assure consistency by archiving every tested sample and logging and documenting every lot.



Testing and Calibration

Every SDL Atlas product is subjected to complete testing and calibration to ensure highest possible performance and full compliance to international standards. In addition, UKAS accredited calibration services are available from the SDL Atlas TecNet, our technical solutions team. With accredited service engineers in three continents, we offer the best service available in the market. TecNet operates a working laboratory, offers presale product demonstrations and participates in standards development.

RELATED TEST PRODUCTS

Complete support: products, installation, consumables, training, and service

SDL Atlas offers a full line of laboratory testing equipment, products and consumables, backed by the support of a cross disciplined team of textile technologists, hardware and software engineers, mechanical and instrumentation engineers, calibration experts and installation and maintenance technicians.



RotaPill Pilling & Snagging Tester

To determine the abrasion and pilling resistance of all kinds of textile structures. Samples are rubbed against known abrasents at low pressures and in continuously changing directions and the amount of abrasion or pilling is compared against standard parameters. The unique design allows removal of individual sample holders for examination without lifting the top motion plate. Provided with unique programmer which includes preprogrammable batch and totaliser counters, individual station counters, 4 position parking function, 4 selectable test speeds with liquid crystal display.

Autoburst

Autoburst is the most versatile bursting tester on the market. With its maximum pressure of 6000kPa/871PSI, it is the ideal solution for more technical materials such as air bags, parachutes, camping gear, heavy duty plastic film or foil packaging, and geotextiles. However the Autoburst performs excellently with finer materials as well. The combination of being a hydraulic instrument with a large range of capacity and specialized software make it the ultimate burst tester available.



Elmendorf

Elmendorf Tearing Tester is designed for determine the ballistic tearing strength by propagating a single-rip tongue-type tear starting from a cut in paper, cardboard, plastics, non-woven and woven fabrics with proper configuration. The versatile testing tester test fine and heavy weight specimens that may require low to high energy tears.



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Wherever people test textiles, you'll find SDL Atlas!