GESTER®
TOTAL TESTING SOLUTION

Martindale Abrasion and Pilling Tester GT-C13B

Product Presentation

Application

To determine the abrasion and pilling resistance of all kinds of textile structures. Samples are rubbed against known abradents at low pressures and in continuously changing directions and the amount of abrasion or pilling is compared against standard parameters.

Feature

- Standard: Lissajous figure.
- Working positions: 4, 6, 8, 9 optional.
- Counting Method: 1) count up. 2) count down.
- The unique design allows removal of individual sample holders for examination without lifting the top motion plate.
- Standard sample holders with 9 and 12kpa weights included.
- PLC, 7 inches color touch screen, Chinese and English operation interface.
- Weights and key components are made up by stainless steel which is well-formed and durable in use.
- To prevent distortion, the top motion plate was special made up by 316 aluminum alloy.

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Consumables

Needed consumables for tests.

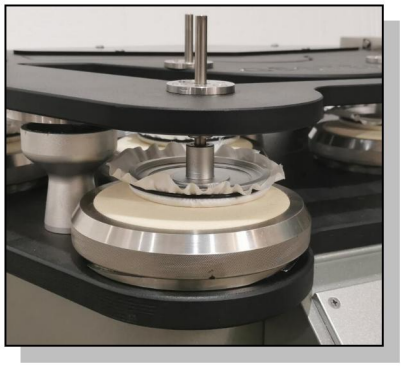
Weights

9Kpa
12Kpa

E-Stop Button

Stop for emergency.

Put Sample



After put sample for abrasion test, put weights according to standards.

Cover

New flip-open designed.

Bearing

From inside to outside, A, B, C places.
Abrasion test, put bearing to C.
Pilling test, put bearing to B.

Interface

Accessories box

Weights 9Kpa
Weights 12Kpa
Pen 1pc
Pilling device
Abrasion device
(Others pls refer to fitting A)

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Key Specification

Model		GT-C13B-4	GT-C13B-6	GT-C13B-8	GT-C13B-9
Working positions		4	6	8	9
Control mode		PLC control and touch screen display			
Counter range		0~999999 times			
Test pressure	Abrasion test	A)Specimen holder: (198 ±2)g B) Larger loading piece: (597±5)g C) The sum mass: (795± 7)g , for workwear , upholstery, bed linen and fabrics for technical use (nominal pressure of 12kpa)			
		A)Specimen holder: (198 ±2)g B) Smaller loading piece: (397±5)g C) The sum mass: (595± 7)g, for apparel and household textiles, excluding upholstery and bed linen (nominal pressure of 9kpa)			
	Pilling test	A) Stainless steel loading piece: (155 ± 1) g B) Specimen holder: (260 ± 1)g C) The sum mass: (415± 2)g			
Holder effective diameter		A) Abrasion Holder: Φ(28.65 ± 0.05)mm			
		B) Pilling Holder: Φ(90 ± 0.10)mm			
Rotational speed		47.5± 2.5r/min			
Pressing weight		Mass: (2.5 ± 0.5) kg			
		Diameter: Φ(120 ± 10) mm			
Power supply		AC220V 50/60Hz			
Dimensions(L x W x H)		60×55×41cm	88×61×41cm	90×62×41cm	90×62×41cm
Weight		75kg	130kg	145kg	150kg

Standards

Abrasion: GB/T 21196.2, GB/T 13775, ISO 12947, ASTM D4966, IWS TM 112, M & S P19, Next 18, SN 198529, TWC 112, JIS L1096, (ISO17076-2 ball plate method ,optional)
Pilling: GB/T 4802.2, ISO12945-2, ASTM D4970, IWS TM 196, M & S P17, Next TM26, SN 198525

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Accessories A

Abrasion weight and holder	1set
Pilling weight and holder	1set
Standard abradents fabric	2 pcs for each head
Standard backing foam 38mm	box of 60pcs
Standard woven felt discs 140mm	2 pcs for each head
Standard woven felt discs 90mm	2 pcs for each head
Photographs (copy one)	1set
Sample cutting die(Φ38m , Φ90mm, Φ140mm)	1pc for each size
Pressing weight	1pc
Auxiliary device for specimen mounting	1pc
Steel ball	3pcs
Power line	1pc

Accessories B

EMPA Photographic standards for pilling test (3 x 4 knitted)	Optional
EMPA Photographic standards for pilling test (3 x 4 woven)	Optional
SM 50 Photographs for pilling test IWS + ASTM. 4 Sets 1-5 (Plain, Twill A, Twill B, Blanket)	Optional
Standard abradents fabric	Optional
Standard backing foam Φ38mm	Optional
Standard woven felt Discs 140mm	Optional
Standard woven felt Discs 90mm	Optional
GT-C48 Pneumatic Sample Cutter	Optional
Ball plate for ISO17076-2	Optional