



Report nr. **1501655-003**

TEST	M.U.	RESULTS
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14323-ar PROPENSITY TO SURFACE PILLING (Martindale)

Method: UNI EN ISO 12945-2/02
Instrument: Abrasion Tester Martindale J.Heal - NU - 406

Number of observers: 02

EXPLANATORY NOTE OF THE RESULTS

- Grade 5: no change
- Grade 4: slight surface fuzzing and/or partially formed pills
- Grade 3: moderate surface fuzzing and/or moderate pilling. Pills of varying size and density partially covering the specimen surface
- Grade 2: distinct surface fuzzing and/or distinct pilling. Pills of varying size and density covering a large proportion of the specimens surface.
- Grade 1: dense surface fuzzing and/or severe pilling. Pills of varying size and density covering the whole of the specimen surface.

Date of test:		10-03-2015
Pretreatment carried out		NO ONE
Change at 500 revs.	grade	4
Change at 1000 revs.	grade	4
Change at 2000 revs.	grade	4
Change at 5000 revs.	grade	4
The final grade above refers to pilling and fuzzing.		
Number of specimens:	nr.	3
Abradent:		Abradant wool
Load applied:	g	415
Deviation from procedure		-

14063 RESISTANCE TO ABRASION (Martindale) - DETERMINATION OF SPECIMEN BREAKDOWN

Method: UNI EN ISO 12947-2:2000 + EC 1-2010
Instrument: Abrasion Tester Martindale J.Heal - 103

SPECIMEN BREAKDOWN

- Specimen breakdown is reached when:
- in woven fabric, when two separate threads are completely broken;
 - in knitted fabric, when one thread is broken causing a hole;
 - in pile fabric, when the pile is fully worn off;
 - in nonwoven fabric, when the first hole is of a diameter at least equal to 0,5 mm.

Date of test:		13/3/2015
Pretreatment carried out		No one
First specimen: cycles to end point	cycles	>50000
Second specimen: cycles to end point	cycles	>50000
Third specimen: cycles to end point	cycles	>50000
Average	cycles	>50000
Confidence limits		-
Load applied	kPa	12
Change in colour at the end point (when stated)	grade	2/3
Pilling occurred	cycles	-
Deviation from procedure		-
Enclosed:	nr.	1