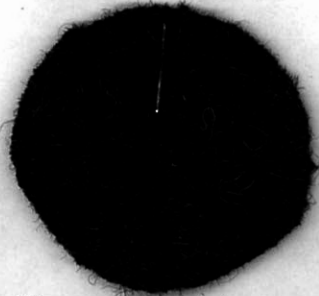




Postadress/Postal address IFP Research AB Box 55061, SE-504 02 BORÅS Tfn +46 (0)33 13 64 30 Fax +46 (0)33 13 91 65		Besöksadress/Visiting address Fabriksgatan 12, SE-503 38 BORÅS (Tekocenter) Provningsschef/Manager Iréne Häglund		Kontaktperson/Contact Bitte Björnsson
Uppdragsgivare Client <b>ACQWOOL AB</b> <b>Stora vägen 22</b> <b>520 10 Gällstad</b>	Uppdragsgivarens ref. Client's ref. <b>Lars Karlsson</b>	Vårt ref. nr Our ref. no. <b>BU04.0164.e</b>		

Object: Determination of resistance to pilling and surface fuzzing.

Test material: Dark grey knitted wool fabric marked with article no 262 88.



Möbeltyg QWiz  
ej QWaiet

The test material was received from the client June 2.  
The commission was performed June 2—14.

Procedure: **Resistance to pilling and surface fuzzing** was determined according to SS-EN ISO 12945-2:2000 in Martindale apparatus.

Number of specimens: 5  
Abradant: wool fabric  
Loading weight: (415 ± 2) g.  
Number of observers: 2  
Viewing conditions: worst angle.

**Abrasion resistance** was determined according to SS-EN ISO 12947-2:1999, in Martindale apparatus.

Pressure used: 12 kPa.  
Test serie: 2 000 rubs untill 20 000 rubs, 5 000 rubs untill 40 000 rubs, thereafter 10 000 rubs untill 50 000 rubs.  
Specimen breakdown definition: One thread broken

**Determination of weight loss**, according to SS-EN ISO 12947-3:1999 in Martindale apparatus.

Pressure used: 12 kPa.  
Test serie: 10 000 rubs  
Number of specimens: 2

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Results:

**Resistance to pilling and surface fuzzing**

Abradant	Rating
Number of rubs	
-125	4-5
-500	4-5
-1 000	4
-2 000	4
-5 000	3-4

Scale 1-5, where 5 is best.

**Abrasion resistance**, number of rubs at which breakdown has not yet been observed

Material	Specimen		Mean value
	1	2	
Face	>50 000	>50 000	>50 000
Reverse	>50 000	>50 000	>50 000

**Weight loss**

Face 4,0 %

Reverse 3,5 %

**Comment:**


At 10 000 rubs the basic structure is completely visible.

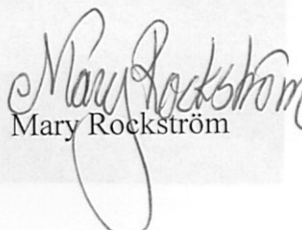
When the textile product loses fibres there is an obvious risk for surrounding materials to be affected. Fibre loss higher than 1 % implies a risk.

Borås June 14, 2004

IFP Research AB

Boråsfilialen


 Bitte Björnsson


 Mary Rockström

Resultat: **Härdighet mot nopp- och luddbildning,**

Antal varv	Härdighetsklass
-125	4-5
-500	4-5
-1 000	4
-2 000	4
-5 000	3-4

Skala 1-5, där 5 är bäst.

**Härdighet mot nötning,** antal varv vid vilket slutpunkt ännu ej har observerats

Material	Provkropp		Medelvärde
	1	2	
Rätsida	>50 000	>50 000	>50 000
Avigsida	>50 000	>50 000	>50 000

#### Viktförlust

Rätsida 4,0 %  
Avigsida 3,5 %

#### Kommentar:

Vid 10 000 varv är grundväven helt synlig.  
När textilprodukt avger fibrer föreligger det en uppenbar risk att omgivande material påverkas. Fibersläpp högre än 1 % innebär en stor risk.

Borås June 14, 2004  
IFP Research AB  
Boråsfilialen

  
Bitte Björnsson

  
Mary Rockström