



Feabrik bv
Minosstraat 20
5048 CK TILBURG
Netherlands

Your notice of
20-12-2021

Your reference

Date
04-01-2022

Analysis Report 21.07694.01

Required tests :

ISO 12947-2 (2016)

ISO12945-2 (2020)

Determination of the abrasion resistance - Martindale

Determination of the resistance to pilling – Martindale

Sample id	Information given by the client	Date of receipt
T2126882	ARDA 922603	20-12-2021
T2126883	ARDA 922601	20-12-2021

Lies Alboort
Order responsible

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The results of the analysis cover the received samples. Centexbel is not responsible for the representativeness of the samples.
In assessing compliance with the specifications, we did not take into account the uncertainty on the test results.



Reference: T2126882 - ARDA 922603

Determination of the abrasion resistance - Martindale

Date of ending the test 03-01-2022
 Standard used ISO 12947-2 (2016)

Deviation from the standard -
 Conditioning 20°C, relative humidity 65%
 Apparatus Martindale Wear and Abrasion Tester
 Pressure on test specimen 12 kPa
 Abradant Standard wool fabric
 Type of the felt Woven felt
 Approximate g/m² > 500
 Number of test specimens 3

Test end point Knitted - 1 loop completely damaged

Specimen	Number of rubs	Final result
#1	70 000	60 000
#2	100 000	≥ 100 000
#3	100 000	≥ 100 000
Minimum value	70 000	60 000

Reference: T2126882 - ARDA 922603

Determination of the resistance to pilling – Martindale

Date of ending the test 03-01-2022
Standard used ISO12945-2 (2020)

Deviation from the standard -
Conditioning 20°C, relative humidity 65%
Apparatus Martindale Wear and Abrasion Tester
Pressure on test specimen 6,5 cN/cm²
Abradant Standard wool fabric
Number of test specimens 3
Number of assessors 2
The final assessment is based on

Pilling

	Test specimen 1	Test specimen 2	Test specimen 3	
Number of rounds	Result	Result	Result	Average
125	5	5	5	5
500	5	5	5	5
1000	5	5	5	5
2000	5	5	5	5
5000	5	5	5	5
7000	5	5	5	5

Fuzzing

	Test specimen 1	Test specimen 2	Test specimen 3	
Number of rounds	Result	Result	Result	Average
125	5	5	5	5
500	5	5	5	5
1000	4-5	4-5	4-5	4-5
2000	4-5	4-5	4-5	4-5
5000	4-5	4-5	4-5	4-5
7000	4-5	4-5	4-5	4-5



Matting

	Test specimen 1	Test specimen 2	Test specimen 3	
Number of rounds	Result	Result	Result	Average
125	5	5	5	5
500	5	5	5	5
1000	5	5	5	5
2000	5	5	5	5
5000	5	5	5	5
7000	5	5	5	5

Reference: T2126883 - ARDA 922601

Determination of the abrasion resistance - Martindale

Date of ending the test 04-01-2022
Standard used ISO 12947-2 (2016)

Deviation from the standard -
Conditioning 20°C, relative humidity 65%
Apparatus Martindale Wear and Abrasion Tester
Pressure on test specimen 12 kPa
Abradant Standard wool fabric
Type of the felt Woven felt
Approximate g/m² > 500
Number of test specimens 3

Test end point Knitted - 1 loop completely damaged

Specimen	Number of rubs	Final result
#1	80 000	70 000
#2	100 000	90 000
#3	100 000	≥ 100 000
Minimum value	80 000	70 000

Reference: T2126883 - ARDA 922601

Determination of the resistance to pilling – Martindale

Date of ending the test 03-01-2022
Standard used ISO12945-2 (2020)

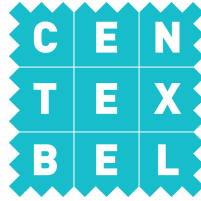
Deviation from the standard -
Conditioning 20°C, relative humidity 65%
Apparatus Martindale Wear and Abrasion Tester
Pressure on test specimen 6,5 cN/cm²
Abradant Standard wool fabric
Number of test specimens 3
Number of assessors 2
The final assessment is based on

Pilling

	Test specimen 1	Test specimen 2	Test specimen 3	
Number of rounds	Result	Result	Result	Average
125	5	5	5	5
500	5	5	5	5
1000	5	5	5	5
2000	5	5	5	5
5000	5	5	5	5
7000	5	5	5	5

Fuzzing

	Test specimen 1	Test specimen 2	Test specimen 3	
Number of rounds	Result	Result	Result	Average
125	5	5	5	5
500	5	5	5	5
1000	4-5	4-5	4-5	4-5
2000	4-5	4-5	4-5	4-5
5000	4-5	4-5	4-5	4-5
7000	4-5	4-5	4-5	4-5



Matting

	Test specimen 1	Test specimen 2	Test specimen 3	
Number of rounds	Result	Result	Result	Average
125	5	5	5	5
500	5	5	5	5
1000	5	5	5	5
2000	5	5	5	5
5000	5	5	5	5
7000	5	5	5	5