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Your notice of	**Your reference**	**Date**
24-09-2024		14-10-2024

Analysis Report 24.05090.01

Required tests :

ISO 12945-2 (2020)	**Determination of the resistance to pilling – Martindale**
ASTM D3939/D3939 M (2017)	**Determination of the snagging**
ISO 13936-2 (2004)	**Determination of the seam slippage at a specified force.**

Sample id	Information given by the client	Date of receipt
T2418656	MYR	24-09-2024

Elke Van De Walle
Order responsible

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.

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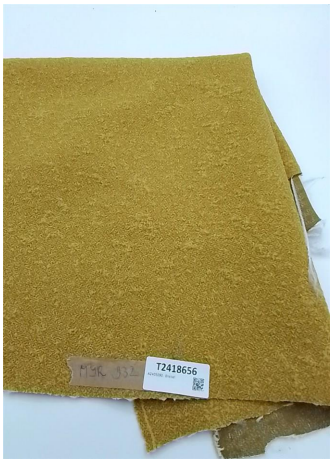
Samples

T2418656
MYR



Reference: **T2418656 - MYR**

Determination of the resistance to pilling – Martindale

Date of ending the test	11-10-2024
Standard used	ISO 12945-2 (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	5	5	5	5
2000	5	5	5	5
5000	5	5	5	5
7000	5	5	5	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: **T2418656 - MYR**

Determination of the snagging

Date of ending the test	11-10-2024
Standard used	ASTM D3939/D3939 M (2017)
Deviation from the standard	On specimen without pretreatment
Apparatus	I.C.I Mace Snag Tester
Number of revolutions	60 / min
Assessment	After 600 cycles (= 10 min.) in the I.C.I. Mace Snag Viewing cabinet

	Assessment
Wales direction (course//seam) // cylinder	5
Wales direction (course//seam) // cylinder	5
Average	5
Course direction (Wales//seam) // cylinder	4-5
Course direction (Wales//seam) // cylinder	4-5
Average	4-5

Reference: T2418656 - MYR

Determination of the seam slippage at a specified force.

Date of ending the test	11-10-2024
Standard used	ISO 13936-2 (2004)
Product standard	EN 14465 (2003) + A1 (2006)
Deviation from the standard	-
Conditioning	20°C, relative humidity 65%
Stitching type	74 tex (PES) and a needle size N° 110 and 32 stitches per 100 mm
Apparatus	Instron, type CRE, class 0,5
Cell	1 kN
Rate	50 mm/min
Number of test specimens	5 (Warp direction (weft//seam)) 5 (Weft direction (warp//seam))

Seam opening after reducing of the strength of 180 N to 5 N (mm)

	Warp direction (weft//seam)	Weft direction (warp//seam)
	Seam opening after reduction at 5 N (mm)	Seam opening after reduction at 5 N (mm)
#1	1.0	0.5
#2	1.0	0.5
#3	1.0	0.5
#4	1.0	0.5
#5	1.0	0.5
Average	1.0 mm	0.5 mm

During the test executed in the direction of the warp, the weft threads are gliding, during the test executed in the direction of the weft, the warp threads are gliding