

**Feabrik bv**  
**Minosstraat 20**  
**5048 CK TILBURG**  
**Netherlands**

**Your notice of**  
16-03-2022

**Your reference**

**Date**  
01-04-2022

## Analysis Report 22.01483.01

Required tests :

**ISO 105-X12 (2016)**  
**ISO 105-B02 (2014)**

**Determination of the colour fastness to rubbing**  
**Determination of the colour fastness to light**

Sample id	Information given by the client	Date of receipt
T2205208	ARDA 211	16-03-2022
T2205209	ARDA 201	16-03-2022
T2205210	ARDA 931	16-03-2022
T2205211	ARDA 961	16-03-2022
T2205212	ARDA 991	16-03-2022
T2205213	ARDA 771	16-03-2022
T2205214	ARDA 131	16-03-2022
T2205215	ARDA 161	16-03-2022
T2205216	ARDA 791	16-03-2022
T2205217	ARDA 671	16-03-2022
T2205219	ARDA 351	16-03-2022
T2205220	ARDA 321	16-03-2022



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: T2205208 - ARDA 211**

**Determination of the colour fastness to rubbing**

Date of ending the test 29-03-2022  
 Standard used ISO 105-X12 (2016)  
  
 Deviation from the standard -  
 Conditioning 20°C, relative humidity 65%  
 Apparatus Crockmeter  
 Applied finger Ø 16 mm  
 Pressure on test specimen 9 N  
 Number of cycles 10

Assessment of staining according to the grey scales (ISO 105 A03)

**Numerical rating**

	Wales direction	Course direction
Dry	4-5	4-5
Wet	4-5	4-5

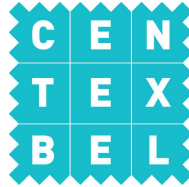
**Reference: T2205208 - ARDA 211**

**Determination of the colour fastness to light**

Date of ending the test	31-03-2022
Standard used	ISO 105-B02 (2014)
Deviation from the standard	-
Method	1
Apparatus	Xenotest 220 Atlas
Exposure	Constant
Irradiance	42 W/m <sup>2</sup> @ 300-400 nm
Black standard temperature	47±3°C
Effective humidity	±40%

Assessment according the blue scale standard

Numerical rating	≥ 7
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**Reference: T2205209 - ARDA 201**

**Determination of the colour fastness to rubbing**

Date of ending the test 29-03-2022  
 Standard used ISO 105-X12 (2016)  
  
 Deviation from the standard -  
 Conditioning 20°C, relative humidity 65%  
 Apparatus Crockmeter  
 Applied finger Ø 16 mm  
 Pressure on test specimen 9 N  
 Number of cycles 10

Assessment of staining according to the grey scales (ISO 105 A03)

**Numerical rating**

	Wales direction	Course direction
Dry	4-5	4-5
Wet	4-5	4-5

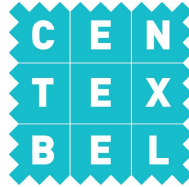
**Reference: T2205209 - ARDA 201**

**Determination of the colour fastness to light**

Date of ending the test	31-03-2022
Standard used	ISO 105-B02 (2014)
Deviation from the standard	-
Method	1
Apparatus	Xenotest 220 Atlas
Exposure	Constant
Irradiance	42 W/m <sup>2</sup> @ 300-400 nm
Black standard temperature	47±3°C
Effective humidity	±40%

Assessment according the blue scale standard

Numerical rating	6-7
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**Reference: T2205210 - ARDA 931**

**Determination of the colour fastness to rubbing**

Date of ending the test 29-03-2022  
 Standard used ISO 105-X12 (2016)  
  
 Deviation from the standard -  
 Conditioning 20°C, relative humidity 65%  
 Apparatus Crockmeter  
 Applied finger Ø 16 mm  
 Pressure on test specimen 9 N  
 Number of cycles 10

Assessment of staining according to the grey scales (ISO 105 A03)

**Numerical rating**

	Wales direction	Course direction
Dry	4-5	4-5
Wet	4	4



**Reference: T2205210 - ARDA 931**

**Determination of the colour fastness to light**

Date of ending the test	31-03-2022
Standard used	ISO 105-B02 (2014)
Deviation from the standard	-
Method	1
Apparatus	Xenotest 220 Atlas
Exposure	Constant
Irradiance	42 W/m <sup>2</sup> @ 300-400 nm
Black standard temperature	47±3°C
Effective humidity	±40%

Assessment according the blue scale standard

Numerical rating	7
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**Reference: T2205211 - ARDA 961**

**Determination of the colour fastness to rubbing**

Date of ending the test 29-03-2022  
 Standard used ISO 105-X12 (2016)  
  
 Deviation from the standard -  
 Conditioning 20°C, relative humidity 65%  
 Apparatus Crockmeter  
 Applied finger Ø 16 mm  
 Pressure on test specimen 9 N  
 Number of cycles 10

Assessment of staining according to the grey scales (ISO 105 A03)

**Numerical rating**

	Wales direction	Course direction
Dry	4-5	4-5
Wet	4	4





**Reference: T2205211 - ARDA 961**

**Determination of the colour fastness to light**

Date of ending the test	31-03-2022
Standard used	ISO 105-B02 (2014)
Deviation from the standard	-
Method	1
Apparatus	Xenotest 220 Atlas
Exposure	Constant
Irradiance	42 W/m <sup>2</sup> @ 300-400 nm
Black standard temperature	47±3°C
Effective humidity	±40%

Assessment according the blue scale standard

Numerical rating	6-7
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**Reference: T2205212 - ARDA 991**

**Determination of the colour fastness to rubbing**

Date of ending the test 29-03-2022  
 Standard used ISO 105-X12 (2016)  
  
 Deviation from the standard -  
 Conditioning 20°C, relative humidity 65%  
 Apparatus Crockmeter  
 Applied finger Ø 16 mm  
 Pressure on test specimen 9 N  
 Number of cycles 10

Assessment of staining according to the grey scales (ISO 105 A03)

**Numerical rating**

	Wales direction	Course direction
Dry	3	3
Wet	4	4



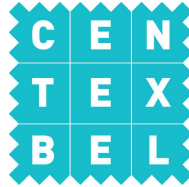
**Reference: T2205212 - ARDA 991**

**Determination of the colour fastness to light**

Date of ending the test	31-03-2022
Standard used	ISO 105-B02 (2014)
Deviation from the standard	-
Method	1
Apparatus	Xenotest 220 Atlas
Exposure	Constant
Irradiance	42 W/m <sup>2</sup> @ 300-400 nm
Black standard temperature	47±3°C
Effective humidity	±40%

Assessment according the blue scale standard

Numerical rating	7
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**Reference: T2205213 - ARDA 771**

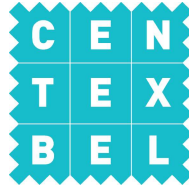
**Determination of the colour fastness to rubbing**

Date of ending the test 29-03-2022  
 Standard used ISO 105-X12 (2016)  
  
 Deviation from the standard -  
 Conditioning 20°C, relative humidity 65%  
 Apparatus Crockmeter  
 Applied finger Ø 16 mm  
 Pressure on test specimen 9 N  
 Number of cycles 10

Assessment of staining according to the grey scales (ISO 105 A03)

**Numerical rating**

	Wales direction	Course direction
Dry	3	3
Wet	4	4



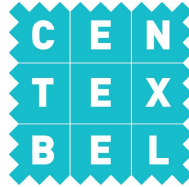
**Reference:** T2205213 - ARDA 771

**Determination of the colour fastness to light**

Date of ending the test	31-03-2022
Standard used	ISO 105-B02 (2014)
Deviation from the standard	-
Method	1
Apparatus	Xenotest 220 Atlas
Exposure	Constant
Irradiance	42 W/m <sup>2</sup> @ 300-400 nm
Black standard temperature	47±3°C
Effective humidity	±40%

Assessment according the blue scale standard

Numerical rating	6
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**Reference: T2205214 - ARDA 131**

**Determination of the colour fastness to rubbing**

Date of ending the test 29-03-2022  
 Standard used ISO 105-X12 (2016)  
  
 Deviation from the standard -  
 Conditioning 20°C, relative humidity 65%  
 Apparatus Crockmeter  
 Applied finger Ø 16 mm  
 Pressure on test specimen 9 N  
 Number of cycles 10

Assessment of staining according to the grey scales (ISO 105 A03)

**Numerical rating**

	Wales direction	Course direction
Dry	4-5	4-5
Wet	4	4



**Reference: T2205214 - ARDA 131**

**Determination of the colour fastness to light**

Date of ending the test	31-03-2022
Standard used	ISO 105-B02 (2014)
Deviation from the standard	-
Method	1
Apparatus	Xenotest 220 Atlas
Exposure	Constant
Irradiance	42 W/m <sup>2</sup> @ 300-400 nm
Black standard temperature	47±3°C
Effective humidity	±40%

Assessment according the blue scale standard

Numerical rating	7
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**Reference: T2205215 - ARDA 161**

**Determination of the colour fastness to rubbing**

Date of ending the test 29-03-2022  
 Standard used ISO 105-X12 (2016)  
  
 Deviation from the standard -  
 Conditioning 20°C, relative humidity 65%  
 Apparatus Crockmeter  
 Applied finger Ø 16 mm  
 Pressure on test specimen 9 N  
 Number of cycles 10

Assessment of staining according to the grey scales (ISO 105 A03)

**Numerical rating**

	Wales direction	Course direction
Dry	4	4
Wet	3-4	3-4





**Reference:** T2205215 - ARDA 161

**Determination of the colour fastness to light**

Date of ending the test	31-03-2022
Standard used	ISO 105-B02 (2014)
Deviation from the standard	-
Method	1
Apparatus	Xenotest 220 Atlas
Exposure	Constant
Irradiance	42 W/m <sup>2</sup> @ 300-400 nm
Black standard temperature	47±3°C
Effective humidity	±40%

Assessment according the blue scale standard

Numerical rating	7
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**Reference: T2205216 - ARDA 791**

**Determination of the colour fastness to rubbing**

Date of ending the test 29-03-2022  
 Standard used ISO 105-X12 (2016)  
  
 Deviation from the standard -  
 Conditioning 20°C, relative humidity 65%  
 Apparatus Crockmeter  
 Applied finger Ø 16 mm  
 Pressure on test specimen 9 N  
 Number of cycles 10

Assessment of staining according to the grey scales (ISO 105 A03)

**Numerical rating**

	Wales direction	Course direction
Dry	3-4	3-4
Wet	4	3-4



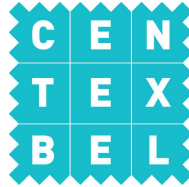
**Reference:** T2205216 - ARDA 791

**Determination of the colour fastness to light**

Date of ending the test	31-03-2022
Standard used	ISO 105-B02 (2014)
Deviation from the standard	-
Method	1
Apparatus	Xenotest 220 Atlas
Exposure	Constant
Irradiance	42 W/m <sup>2</sup> @ 300-400 nm
Black standard temperature	47±3°C
Effective humidity	±40%

Assessment according the blue scale standard

Numerical rating	≥ 7
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**Reference: T2205217 - ARDA 671**

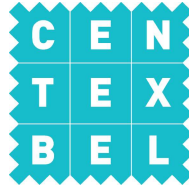
**Determination of the colour fastness to rubbing**

Date of ending the test 29-03-2022  
 Standard used ISO 105-X12 (2016)  
  
 Deviation from the standard -  
 Conditioning 20°C, relative humidity 65%  
 Apparatus Crockmeter  
 Applied finger Ø 16 mm  
 Pressure on test specimen 9 N  
 Number of cycles 10

Assessment of staining according to the grey scales (ISO 105 A03)

**Numerical rating**

	Wales direction	Course direction
Dry	4	4
Wet	4	4



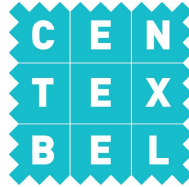
**Reference:** T2205217 - ARDA 671

**Determination of the colour fastness to light**

Date of ending the test	31-03-2022
Standard used	ISO 105-B02 (2014)
Deviation from the standard	-
Method	1
Apparatus	Xenotest 220 Atlas
Exposure	Constant
Irradiance	42 W/m <sup>2</sup> @ 300-400 nm
Black standard temperature	47±3°C
Effective humidity	±40%

Assessment according the blue scale standard

Numerical rating	6
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**Reference: T2205219 - ARDA 351**

**Determination of the colour fastness to rubbing**

Date of ending the test 29-03-2022  
 Standard used ISO 105-X12 (2016)  
  
 Deviation from the standard -  
 Conditioning 20°C, relative humidity 65%  
 Apparatus Crockmeter  
 Applied finger Ø 16 mm  
 Pressure on test specimen 9 N  
 Number of cycles 10

Assessment of staining according to the grey scales (ISO 105 A03)

**Numerical rating**

	Wales direction	Course direction
Dry	4-5	4-5
Wet	4	4

**Reference:** T2205219 - ARDA 351

**Determination of the colour fastness to light**

Date of ending the test	31-03-2022
Standard used	ISO 105-B02 (2014)
Deviation from the standard	-
Method	1
Apparatus	Xenotest 220 Atlas
Exposure	Constant
Irradiance	42 W/m <sup>2</sup> @ 300-400 nm
Black standard temperature	47±3°C
Effective humidity	±40%

Assessment according the blue scale standard

Numerical rating	5-6
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**Reference: T2205220 - ARDA 321**

**Determination of the colour fastness to rubbing**

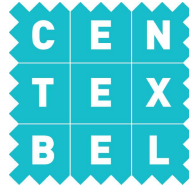
Date of ending the test 29-03-2022  
 Standard used ISO 105-X12 (2016)  
  
 Deviation from the standard -  
 Conditioning 20°C, relative humidity 65%  
 Apparatus Crockmeter  
 Applied finger Ø 16 mm  
 Pressure on test specimen 9 N  
 Number of cycles 10

Assessment of staining according to the grey scales (ISO 105 A03)

**Numerical rating**

	Wales direction	Course direction
Dry	4-5	4-5
Wet	4	4





**Reference:** T2205220 - ARDA 321

**Determination of the colour fastness to light**

Date of ending the test	31-03-2022
Standard used	ISO 105-B02 (2014)
Deviation from the standard	-
Method	1
Apparatus	Xenotest 220 Atlas
Exposure	Constant
Irradiance	42 W/m <sup>2</sup> @ 300-400 nm
Black standard temperature	47±3°C
Effective humidity	±40%

Assessment according the blue scale standard

Numerical rating	6
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