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Report no. 22.0009315 Rev. 1

from 12/21/2022

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Order Date 11/29/2022

Period of Testing 11/29/2022 - 12/7/2022 **Customer Reference**

No customer references

provided.

Aim of Test STANDARD 100 by OEKO-TEX® Annex 4 product class I Edition 01.2022

Testing Material Digitally dyed Epic Eco Verde thread- Cyan, Magenta, Yellow and Black

Sampling The test object was sent to Hohenstein by the client.

Our Contact Person

Division Textile Testing

(testing@hohenstein.de)

Report Approval

OCH Joss Hohen Lale Albayrak-Hindel, B. Eng. Teamleiterin | Team Leader Textile Testing

Dr. rer. nat. Christof Madinger **Chief Operating Officer**

Summary

Passed





Testing Material

1 Yarn	
Color	Blue
Material composition	PES



2 Yarn	
Color	Pink
Material composition	PES

2 Yarn



3 Yarn

Color	Yellow
Material composition	PES

3 Yarn



4 Yarn

Color	Black
Material composition	PES

4 Yarn



4 Yarn



Test Overview

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Polycyclic aromatic hydrocarbons		
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Revision History

The current revision cancels and replaces the original version of the report and all previous revisions.

Rev.	Date	Approved By	Reason
	12/7/2022	Lale Albayrak-Hindel, B. Eng.	Initial approval
1	12/21/2022		Change of designation of the test material

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List of abbreviations

n.d. = not detectable

LOQ = Limit of quantitation

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Detail Results

pH-Value

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 4 product class I, 01.2022

	1	2	3	4	LV		
pH-value	6.0	5.9	5.7	5.9	≥ 4.0 ≤ 7.5		
Additional details for this test							

Parameter hints:



Formaldehyde

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 4 product class I, 01.2022

	1^{C1} [mg/kg]	2^{C1} [mg/kg]	3^{C2} [mg/kg]	4^{C2} [mg/kg]	LOQ [mg/kg]	LV [mg/kg]
Formaldehyde	n.d.	n.d.	n.d.	n.d.	< 10	< 16
			Fo	ootnotes		
Composite Samples	C1 1, 2 C2 3, 4					

Additional details for this test

Parameter hints:

Testing method according to STANDARD 100 by OEKO-TEX®

Result value details:

Formaldehyde

n.d. corresponds according to "Japanese Law 112" test method with an absorbance unit less than 0.05 resp. 16 mg/kg.



Extractable (heavy) metals

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 4 product class I, 01.2022

	1 [mg/kg]	2 [mg/kg]	3 [mg/kg]	4 [mg/kg]	LOQ [mg/kg]	LV [mg/kg]
Antimony	n.d.	n.d.	n.d.	n.d.	< 4	< 30
Arsenic	n.d.	n.d.	n.d.	n.d.	< 0.05	< 0.20
.ead	n.d.	n.d.	n.d.	n.d.	< 0.05	< 0.20
Cadmium	n.d.	n.d.	n.d.	n.d.	< 0.05	< 0.10
Chromium	n.d.	n.d.	n.d.	n.d.	< 0.1	< 1.0
Cobalt	n.d.	n.d.	n.d.	n.d.	< 0.1	< 1.0
Copper	n.d.	n.d.	n.d.	n.d.	< 4	< 25
Iickel	n.d.	n.d.	n.d.	n.d.	< 0.10	< 1.00
Mercury	n.d.	n.d.	n.d.	n.d.	< 0.010	< 0.020
Barium	n.d.	n.d.	n.d.	n.d.	< 4	< 1000
Selenium	n.d.	n.d.	n.d.	n.d.	< 4	< 100

Additional details for this test

Parameter hints:

Testing method according to STANDARD 100 by OEKO-TEX®

Result value details:

Coppe

No requirement for accessories and yarns made from inorganic materials, respecting the requirements regarding biological active products.



Organic tin compounds

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 4 product class I, 01.2022

	1^{C1} [mg/kg]	2^{C1} [mg/kg]	3^{C2} [mg/kg]	4^{C2} [mg/kg]	LOQ [mg/kg]	LV [mg/kg]
Monomethyltin (MMT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Monobutyltin (MBT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Monooctyltin (MOT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Monophenyltin (MPhT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Dimethyltin (DMT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Dipropyltin (DPT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Dibutyltin (DBT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Dioctyltin (DOT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Diphenyltin (DPhT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Trimethyltin (TMT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Tripropyltin (TPT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Tributyltin (TBT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 0.50
Trioctyltin (TOT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Triphenyltin (TPhT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 0.50
Tricyclohexyltin (TCyHT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Tetraethyltin (TeET)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Tetrabutyltin (TeBT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00
Tetraoctyltin (TeOT)	n.d.	n.d.	n.d.	n.d.	< 0.05	< 1.00

Composite Samples

C1 1, 2 **C2** 3, 4

Additional details for this test

Parameter hints:



Free, cleavable and carcinogenic arylamines, free and cleavable aniline

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 4 product class I, 01.2022

n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	< 20 < 20 < 20 < 20 < 20 < 20 < 20 < 20
n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	< 20 < 20 < 20 < 20 < 20 < 20 < 20 < 20
n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	< 20 < 20 < 20 < 20 < 20 < 20 < 20 < 20
n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	< 20 < 20 < 20 < 20 < 20 < 20 < 20 < 20
n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	< 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	< 20 < 20 < 20 < 20 < 20 < 20 < 20 < 20
n.d. n.d. n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d. n.d. n.d.	< 10 < 10 < 10 < 10 < 10 < 10 < 10 < 10	< 20 < 20 < 20 < 20 < 20 < 20 < 20 < 20
n.d. n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d. n.d.	< 10 < 10 < 10 < 10 < 10 < 10	< 20 < 20 < 20 < 20 < 20 < 20
n.d. n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d. n.d. n.d.	< 10 < 10 < 10 < 10	< 20 < 20 < 20 < 20 < 20
n.d. n.d. n.d. n.d. n.d.	n.d. n.d. n.d.	n.d. n.d. n.d.	< 10 < 10 < 10	< 20 < 20 < 20 < 20
n.d. n.d. n.d.	n.d. n.d. n.d.	n.d. n.d.	< 10 < 10	< 20 < 20 < 20
n.d. n.d.	n.d.	n.d.	< 10	< 20 < 20
n.d.	n.d.	n.d.		< 20
n.d.			< 10	
	n.d.	n.d.		
nd			< 10	< 20
n.d.	n.d.	n.d.	< 10	< 20
n.d.	n.d.	n.d.	< 10	< 20
n.d.	n.d.	n.d.	< 10	< 20
n.d.	n.d.	n.d.	< 10	< 20
n.d.	n.d.	n.d.	< 10	< 20
n.d.	n.d.	n.d.	< 10	< 20
n.d.	n.d.	n.d.	< 10	< 20
n.d.	n.d.	16	< 10	< 20
n.d.	n.d.	n.d.	< 10	-
n.d.	n.d.	n.d.	< 10	-
n d	n.d.	n.d.	< 10	-
11.0.				
	n.d.	n.d. n.d.	n.d. n.d. n.d.	n.d. n.d. n.d. <10 n.d. n.d. 10

Composite Samples

C1 1, 2



Additional details for this test

Parameter hints:

Testing method according to STANDARD 100 by OEKO-TEX® o-Aminoazotoluene is detected indirectly by analysis of o-Toluidine. 2-Amino-4-nitrotoluene is detected indirectly by analysis of 2,4-Toluylenediamine.

Result value details:

2,4-Xylidine / 2,6-Xylidine

2,4-Xylidine and 2,6-Xylidine have not been separated analytically, so that the determined value is given for both substances combined.

2-Methyl-p-phenylendiamine

2-Methyl-p-phenylendiamine is under observation and the result is provided for information but presently not regulated indeed.

3,3'-Diaminobenzidine (biphenyl-3,3'4,4'-tetrayltetraamine)

3,3'-Diaminobenzidine (biphenyl-3,3'4,4'-tetrayltetraamine) is under observation and the result is provided for information but presently not regulated indeed.

p-Phenetidine

p-Phenetidine is under observation and the result is provided for information but presently not regulated indeed.

p-Anisidine

p-Anisidine is under observation and the result is provided for information but presently not regulated indeed.



Allergenic, carcinogenic and other banned colorants

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 4 product class I, 01.2022

	1^{C1} [mg/kg]	2^{C1} [mg/kg]	3^{C2} [mg/kg]	4^{C2} [mg/kg]	LOQ [mg/kg]	LV [mg/kg]
Acid Violet 49	n.d.	n.d.	n.d.	n.d.	< 10	-
Basic Blue 26	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Basic Green 4 (chloride, free, oxalate)	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Basic Red 9	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Basic Violet 1	n.d.	n.d.	n.d.	n.d.	< 10	-
Basic Violet 3	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Basic Violet 14	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Blue 1	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Blue 3	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Blue 7	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Blue 26	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Blue 35	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Blue 102	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Blue 106	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Blue 124	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Brown 1	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Orange 1	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Orange 3	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Orange 11	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Orange 37/59/76	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Orange 149	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Red 1	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Red 11	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Red 17	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Yellow 1	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Yellow 3	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Yellow 9	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Yellow 23	n.d.	n.d.	n.d.	n.d.	< 10	< 50

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	1^{C1} [mg/kg]	2^{C1} [mg/kg]	3^{C2} [mg/kg]	4^{C2} [mg/kg]	LOQ [mg/kg]	LV [mg/kg]
Disperse Yellow 39	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Disperse Yellow 49	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Solvent Yellow 1 (4-Aminoazobenzol / Anilin Yellow)	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Solvent Yellow 2	n.d.	n.d.	n.d.	n.d.	< 10	-
Solvent Yellow 3 (o-Aminoazotoluene)	n.d.	n.d.	n.d.	n.d.	< 10	< 50
Solvent Yellow 14	n.d.	n.d.	n.d.	n.d.	< 10	-
Basic Yellow 2 / Solvent Yellow 34 (hydrochloride and free base)	n.d.	n.d.	n.d.	n.d.	< 10	-

Footnotes

Composite Samples

C1 1, 2 **C2** 3, 4

Additional details for this test

Parameter hints:

Testing method according to STANDARD 100 by OEKO-TEX®

Acid Red 26, Acid Red 114, Direct Black 38, Direct Blue 6, Direct Blue 15, Direct Blue 218, Direct Brown 95, Direct Red 28, Pigment Red 104 and Pigment Yellow 34 have no value since no direct quantitative analysis is possible.

Result value details:

Acid Violet 49

Acid Violet 49 has no requirements for Annex 4.

Basic Violet 1

Basic Violet 1 has no requirements for Annex 4.

Solvent Yellow 2

Solvent Yellow 2 has no requirements for Annex 4.

Solvent Yellow 14

Solvent Yellow 14 has no requirements for Annex 4.

Basic Yellow 2 / Solvent Yellow 34 (hydrochloride and free base)

Basic Yellow 2 / Solvent Yellow 34 (hydrochloride and free base) is under observation and the result is provided for information but presently not regulated indeed.



Quinoline

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 4 product class I, 01.2022

	1^{C1} [mg/kg]	2^{C1} [mg/kg]	3^{C2} [mg/kg]	4^{C2} [mg/kg]	LOQ [mg/kg]	LV [mg/kg]
Quinoline	n.d.	n.d.	n.d.	n.d.	< 10	< 50
			Fo	otnotes		
Composite Samples	C1 1, 2 C2 3, 4					

Additional details for this test

Parameter hints:



Chlorinated benzenes and toluenes

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 4 product class I, 01.2022

	1 [mg/kg]	2 [mg/kg]	3 [mg/kg]	4 [mg/kg]	LOQ [mg/kg]	LV [mg/kg]
Chlorobenzene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
1,2-Dichlorobenzene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
1,3-Dichlorobenzene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
1,4-Dichlorobenzene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
1,2,3-Trichlorobenzene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
1,2,4-Trichlorobenzene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
1,3,5-Trichlorobenzene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
1,2,3,4-Tetrachlorobenzene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
1,2,3,5-Tetrachlorobenzene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
1,2,4,5-Tetrachlorobenzene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
Pentachlorobenzene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
Hexachlorobenzene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
2-Chlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
3-Chlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
4-Chlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
a-Chlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
2,3-/3,4-Dichlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
2,4-Dichlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
2,5-/2,6-Dichlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
3,5-Dichlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
a,a-Dichlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
2,3,4-Trichlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
2,3,5-/2,4,5-Trichlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
2,3,6-Trichlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
2,4,6-Trichlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
3,4,5-Trichlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
a,a,a-Trichlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
a,2,4-Trichlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-



	1 [mg/kg]	2 [mg/kg]	3 [mg/kg]	4 [mg/kg]	LOQ [mg/kg]	LV [mg/kg]
a,2,6-Trichlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
a,3,4-Trichlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
2,3,4,5-Tetrachlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
2,3,4,6-Tetrachlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
2,3,5,6-Tetrachlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
a,a,a,2-Tetrachlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
a,a,a,4-Tetrachlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
a,a,2,6-Tetrachlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
Pentachlorotoluene	n.d.	n.d.	n.d.	n.d.	< 0.10	-
Sum	n.d.	n.d.	n.d.	n.d.	-	< 1.00

Additional details for this test

Parameter hints:

Testing method according to STANDARD 100 by OEKO-TEX®

Result value details:

2,3-/3,4-Dichlorotoluene

2,3-Dichlorotoluene and 3,4-Dichlorotoluene are not analytically separable, so that the determined value for both substances must be given combined.

2,5-/2,6-Dichlorotoluene

2,5-Dichlorotoluene und 2,6-Dichlorotoluene are not analytically separable, so that the determined value for both substances must be given combined.

2,3,5-/2,4,5-Trichlorotoluene

2,3,5-Trichlorotoluene und 2,4,5-Trichlorotoluene are not analytically separable, so that the determined value for both substances must be given combined.



Polycyclic aromatic hydrocarbons

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 4 product class I, 01.2022

	1^{C1} [mg/kg]	2^{C1} [mg/kg]	3^{C2} [mg/kg]	4^{C2} [mg/kg]	LOQ [mg/kg]	LV [mg/kg]
Acenaphthene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Acenaphthylene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Anthracene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Benzo[a]anthracene	n.d.	n.d.	n.d.	n.d.	< 0.20	< 0.50
Benzo[b,k,j]fluoranthene	n.d.	n.d.	n.d.	n.d.	< 0.20	< 0.50
Benzo[ghi]perylene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Benzo[a]pyrene	n.d.	n.d.	n.d.	n.d.	< 0.20	< 0.50
Benzo[e]pyrene	n.d.	n.d.	n.d.	n.d.	< 0.20	< 0.50
Chrysene	n.d.	n.d.	n.d.	n.d.	< 0.20	< 0.50
Cyclopenta[c,d]pyrene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Dibenzo[a,h]anthracene	n.d.	n.d.	n.d.	n.d.	< 0.20	< 0.50
Dibenzo[a,e]pyrene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Dibenzo[a,h]pyrene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Dibenzo[a,i]pyrene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Dibenzo[a,l]pyrene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Fluoranthene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Fluorene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Indeno[1,2,3-cd]pyrene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
1-Methylpyrene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Naphthalene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Phenanthrene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Pyrene	n.d.	n.d.	n.d.	n.d.	< 0.20	-
Sum 24 PAHs	n.d.	n.d.	n.d.	n.d.	-	< 5.00
			Foot	tnotes		

Composite Samples

C1 1, 2 **C2** 3, 4

Additional details for this test



Parameter hints:

Testing method according to STANDARD 100 by OEKO-TEX®

Result value details:

Benzo[b,k,j]fluoranthene

Benzo[b]fluoranthene, benzo[k]fluoranthene and benzo[j]fluoranthene have not been separated analytically and therefore the calculated value for these substances is given in combination.



Solvent residues

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 4 product class I, 01.2022

	1 [%]	3 [%]	LOQ [%]	LV [%]		
1-Methyl-2-pyrrolidone (NMP)	n.d.	n.d.	< 0.010	< 0.050		
N,N-Dimethylacetamide (DMAc)	n.d.	n.d.	< 0.010	< 0.050		
N,N-Dimethylformamide (DMF)	n.d.	n.d.	< 0.010	< 0.050		
Formamide	n.d.	n.d.	< 0.010	< 0.020		
Additional details for this test						

Parameter hints:



Surfactant, wetting agent residues, alkyl phenols

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 4 product class I, 01.2022

	1 ^{C1} [mg/kg]	2^{C1} [mg/kg]	3^{C2} [mg/kg]	4^{C2} [mg/kg]	LOQ [mg/kg]	LV [mg/kg]
4-tert-Butylphenol (BP)	n.d.	n.d.	n.d.	n.d.	< 4.0	-
Pentylphenol (PeP)	n.d.	n.d.	n.d.	n.d.	< 4.0	-
Heptylphenol (HpP)	n.d.	n.d.	n.d.	n.d.	< 4.0	-
Octylphenol (OP)	n.d.	n.d.	n.d.	n.d.	< 4.0	-
Nonylphenol (NP)	n.d.	n.d.	n.d.	n.d.	< 4.0	-
Sum BP, NP, OP, HpP, PeP	n.d.	n.d.	n.d.	n.d.	-	< 10.0
Octylphenolethoxylates (OP(EO))	n.d.	n.d.	n.d.	n.d.	< 4.0	-
Nonylphenolethoxylates (NP(EO))	n.d.	n.d.	n.d.	n.d.	< 4.0	-
Sum BP, NP, OP, HpP, PeP, NP(EO), OP(EO)	n.d.	n.d.	n.d.	n.d.	-	< 100.0
		E.	notnotos			

Footnotes

Composite Samples

C1 1, 2 **C2** 3, 4

Additional details for this test

Parameter hints:



Color fastness to water

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 4 product class I, 01.2022

	1	2	3	4	LV
Adjacent fabric 1	Polyester	Cotton	Cotton	Cotton	-
Adjacent fabric 2	Cotton	Polyester	Polyester	Polyester	-
Fastness grade 1	4-5	4-5	4-5	3-4	(LV1)
Fastness grade 2	4-5	4-5	4-5	4	(LV1)
	'	Foot	notes		
Leads to failed	(LV1) 1 / 1-2 / 2 / 2-3	/ 3			

Additional details for this test

Parameter hints:



Color fastness to perspiration

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 4 product class I, 01.2022

	1	2	3	4	LV	
Adjacent fabric 1	Polyester	Polyester	Polyester	Polyester	-	
Adjacent fabric 2	Cotton	Cotton	Cotton	Cotton	-	
Fastness grade 1 - alkaline	4-5	4-5	4-5	3-4	(LV1)	
Fastness grade 2 - alkaline	4-5	4-5	4-5	3-4	(LV1)	
Fastness grade 1 - acid	4-5	4-5	4-5	4	(LV1)	
Fastness grade 2 - acid	4-5	4-5	4-5	3-4	(LV1)	
Footnotes						

Leads to failed

(LV1) 1 / 1-2 / 2 / 2-3 / 3

Additional details for this test

Parameter hints:



Color fastness to saliva and perspiration

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 4 product class I, 01.2022

	1	2	3	4	LV	
Rating	fast	fast	fast	fast	(LV1)	
Footnotes						
Leads to failed	(LV1) not fast					

Additional details for this test

Parameter hints:

Testing method according to STANDARD 100 by OEKO-TEX®

Result value details:

Rating

The evaluation "fast" confirms the saliva and perspiration fastness of the sample. The evaluation "not fast" confirms that the sample is not fast to saliva and perspiration.



Chlorinated solvents, volatile organic compounds, glycols and cresols

The following results were evaluated against the limit values (LV): STANDARD 100 by OEKO-TEX® Annex 6 product class I, 01.2022

	2 [mg/kg]	4 [mg/kg]	LOQ [mg/kg]	LV [mg/kg]
Dichloromethane	n.d.	n.d.	< 0.1	< 1.0
Trichloromethane	n.d.	n.d.	< 0.1	< 1.0
Tetrachloromethane	n.d.	n.d.	< 0.1	< 1.0
1,1-Dichloroethane	n.d.	n.d.	< 0.1	< 1.0
1,2-Dichloroethane	n.d.	n.d.	< 0.1	< 1.0
1,1,1-Trichloroethane	n.d.	n.d.	< 0.1	< 1.0
1,1,2-Trichloroethane	n.d.	n.d.	< 0.1	< 1.0
1,1,1,2-Tetrachloroethane	n.d.	n.d.	< 0.1	< 1.0
1,1,2,2-Tetrachloroethane	n.d.	n.d.	< 0.1	< 1.0
Pentachloroethane	n.d.	n.d.	< 0.1	< 1.0
1,1-Dichloroethylene	n.d.	n.d.	< 0.1	< 1.0
cis-1,2-Dichloroethylene	n.d.	n.d.	< 0.1	-
trans-1,2-Dichloroethylene	n.d.	n.d.	< 0.1	-
Sum 1,2-Dichloroethylene	n.d.	n.d.	-	< 1.0
Trichloroethylene	n.d.	n.d.	< 0.1	< 1.0
Tetra(per)chloroethylene	n.d.	n.d.	< 0.1	< 1.0
Sum of the 14 chlorinated solvents	n.d.	n.d.	-	< 5.0
Methylethylketone	n.d.	n.d.	< 1.0	< 10.0
Ethylbenzene	n.d.	n.d.	< 1.0	< 10.0
m-/p-Xylene	n.d.	n.d.	< 2.0	-
o-Xylene	n.d.	n.d.	< 1.0	-
Sum Xylene	n.d.	n.d.	-	< 10.0
Cyclohexanone	n.d.	n.d.	< 1.0	< 10.0
2-Ethoxyethylacetate	n.d.	n.d.	< 1.0	< 10.0
1,2,3-Trichloropropane	n.d.	n.d.	< 0.1	< 10.0
Acetophenone	2.3	n.d.	< 1.0	< 10.0
2-Phenyl-2-propanole	n.d.	n.d.	< 1.0	< 10.0
Bis(2-methoxyethyl) ether	n.d.	n.d.	< 1.0	< 10.0



	2 [mg/kg]	4 [mg/kg]	LOQ [mg/kg]	LV [mg/kg]
Styrene	n.d.	n.d.	< 1.0	< 10.0
Benzene	0.2	n.d.	< 0.1	< 1.0
Toluene	n.d.	n.d.	< 1.0	< 10.0
2-Ethoxyethanol	n.d.	n.d.	< 1.0	< 10.0
Ethylene glycol dimethyl ether	n.d.	n.d.	< 2.0	< 10.0
Methylglycol	n.d.	n.d.	< 2.0	< 10.0
2-Methoxyethylacetate	n.d.	n.d.	< 1.0	< 10.0
2-Methoxypropylacetate	n.d.	n.d.	< 1.0	< 10.0
Triethylene glycol dimethyl ether	n.d.	n.d.	< 1.0	< 10.0
1,2-Diethoxyethane	n.d.	n.d.	< 1.0	-
2-Methoxypropanol	n.d.	n.d.	< 1.0	-
o-Cresol	n.d.	n.d.	< 1.0	< 10.0
m-/p-Cresol	n.d.	n.d.	< 2.0	< 10.0

Additional details for this test

Parameter hints:

Testing method according to STANDARD 100 by OEKO-TEX®

Result value details:

1,2-Diethoxyethane

1,2-Diethoxyethane is under observation and the result is provided for information but presently not regulated indeed.

2-Methoxypropanol

2-Methoxypropanol is under observation and the result is provided for information but presently not regulated indeed.

m-/p-Cresol

m-Cresol and p-cresol have not been separated analytically, so that the determined value for these substances is given combined.