

**Registered**

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**Test Report SH004 246914.1**

**Application**

2. Renewal of certificate SH004 206906 - OEKO-TEX® STANDARD 100, Product Class I, Annex 6

**Test Material**

4 CLY filament yarn in white

**Issuing**

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**TESTEX AG**

Swiss Textile Testing Institute



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Annex:

Certificate SH004 206906 valid to 31.08.2025



## 1 Summary

The results of this test report can be used as basis for an OEKO-TEX® certification.

## 2 Overview

p: tested and passed; x: tested and failed; ' ': not tested

	Sample			
	1	2	3	4
pH-Value OEKO-TEX® Method 1 (ISO 3071:2020 - KCl)	p			p
Formaldehyde OEKO-TEX® Method 2.2 - JIS L-1041		p	p	
Heavy Metals OEKO-TEX® Method 3.1 (Extract)	p		p	
Chlorinated Phenols and OPP OEKO-TEX® Method 5		p	p	
Polycyclic Aromatic Hydrocarbons (PAH) OEKO-TEX® Method 13		p		p
Surfactants, Wetting Agent Residues OEKO-TEX® Method 20	p			p

1: CLY Filament yarn White S.P120D

2: CLY Filament yarn White R.A120D

3: CLY Filament yarn White S.P80D

4: CLY Filament yarn White R.A80D

## 3 Scope Of Application

An application with the appropriate OEKO-TEX® forms was submitted for

**Filament yarns made of lyocell, raw white.**

The application is for the 2. Renewal of certificate SH004 206906 - OEKO-TEX® STANDARD 100, Product Class I, Annex 6.

#### 4 Samples

No.	Receipt	Sample Identification
1	26.08.2024	CLY, Filament yarn, White, S.P120D
2	26.08.2024	CLY, Filament yarn, White, R.A120D
3	26.08.2024	CLY, Filament yarn, White, S.P80D
4	26.08.2024	CLY, Filament yarn, White, R.A80D

(Unless otherwise stated samples are provided by the customer.)

#### 5 Photo Overview

#1



CLY Filament yarn White  
S.P120D

#2



CLY Filament yarn White  
R.A120D

#3



CLY Filament yarn White  
S.P80D

#4



CLY Filament yarn White  
R.A80D

## 6 Tests Performed / Results

As required in the OEKO-TEX® STANDARD 100 the test program is decided by the institute based on the article group, the requested product class and on the technical information given in the application form. Required tests are carried out according to OEKO-TEX®STANDARD 100 and the testing procedure laid down in "OEKO-TEX®

		OEKO- TEX® STANDARD 100 Product Class I Annex 6	#1 CLY Filament yarn White S.P120D	#4 CLY Filament yarn White R.A80D
<b>pH-Value</b> OEKO-TEX® Method 1 (ISO 3071:2020 - KCl)				
Number of Tests			2	2
• Aqueous extract	[pH]	>=4.0 <=7.5	5.6	5.7

		OEKO- TEX® STANDARD 100 Product Class I Annex 6	#2 CLY Filament yarn White R.A120D	#3 CLY Filament yarn White S.P80D
<b>Formaldehyde</b> OEKO-TEX® Method 2.2 - JIS L-1041				
Number of Tests			1	1
• Free formaldehyde	[mg/kg]	<16	<16	<16

		OEKO- TEX® STANDARD 100 Product Class I Annex 6	#1 CLY Filament yarn White S.P120D	#3 CLY Filament yarn White S.P80D
<b>Heavy Metals</b>				
OEKO-TEX® Method 3.1 (Extract)				
Number of Tests			1	1
• Antimony	[mg/kg]	<30	<0.1	<0.1
• Arsenic	[mg/kg]	<0.20	<0.02	<0.02
• Lead	[mg/kg]	<0.20	<0.02	<0.02
• Cadmium	[mg/kg]	<0.10	<0.02	<0.02
• Chromium total	[mg/kg]	<1.0	0.03	0.02
• Cobalt	[mg/kg]	<1.0	<0.02	<0.02
• Copper	[mg/kg]	<25	<1.0	<1.0
• Nickel	[mg/kg]	<1.0	<0.10	<0.10
• Mercury	[mg/kg]	<0.02	<0.006	<0.006
• Selenium	[mg/kg]	<100	<0.40	<0.40
• Zinc	[mg/kg]	<750	<2.00	<2.00
• Manganese	[mg/kg]	<90	<0.40	<0.40
• Barium	[mg/kg]	<1000	2.0	<2.00

		OEKO- TEX® STANDARD 100 Product Class I Annex 6	#2 CLY Filament yarn White R.A120D	#3 CLY Filament yarn White S.P80D
<b>Chlorinated Phenols and OPP</b>				
OEKO-TEX® Method 5				
Number of Tests			1	1
• OPP (Orthophenylphenol)	[mg/kg]	<10	<0.05	<0.05
• Pentachlorophenol (PCP)	[mg/kg]	<0.05	<0.01	<0.01
• 2,3,5,6-TeCP	[mg/kg]		<0.01	<0.01
• 2,3,4,6-TeCP	[mg/kg]		<0.01	<0.01
• 2,3,4,5-TeCP	[mg/kg]		<0.01	<0.01
• Tetrachlorophenols (TeCP, Sum)	[mg/kg]	<0.05	<0.01	<0.01
• 2,3,4-TrCP	[mg/kg]		<0.01	<0.01
• 2,3,5-TrCP	[mg/kg]		<0.01	<0.01
• 2,3,6-TrCP	[mg/kg]		<0.01	<0.01
• 2,4,5-TrCP	[mg/kg]		<0.01	<0.01
• 2,4,6-TrCP	[mg/kg]		<0.01	<0.01
• 3,4,5-TrCP	[mg/kg]		<0.01	<0.01
• Trichlorophenols (TrCP, Sum)	[mg/kg]	<0.20	<0.01	<0.01
• 2,4/2,5-DCP	[mg/kg]		<0.01	<0.01
• 2,6-DCP	[mg/kg]		<0.01	<0.01
• 2,3-DCP	[mg/kg]		<0.01	<0.01
• 3,4-DCP	[mg/kg]		<0.01	<0.01
• 3,5-DCP	[mg/kg]		<0.01	<0.01
• Dichlorophenols (DCP, Sum)	[mg/kg]	<0.50	<0.01	<0.01
• 2-MCP	[mg/kg]		<0.01	<0.01
• 3-MCP	[mg/kg]		<0.01	<0.01
• 4-MCP	[mg/kg]		<0.01	<0.01
• Monochlorophenols (MCP, Sum)	[mg/kg]	<0.50	<0.01	<0.01

	OEKO- TEX® STANDARD 100 Product Class I Annex 6	#2 CLY Filament yarn White R.A120D	#4 CLY Filament yarn White R.A80D
<b>Polycyclic Aromatic Hydrocarbons (PAH)</b> OEKO-TEX® Method 13			
Number of Tests		1	1
• Naphthalene [mg/kg]	<2.0	<0.01	<0.01
• Acenaphthylene [mg/kg]		<0.01	<0.01
• Acenaphthene [mg/kg]		<0.01	<0.01
• Fluorene [mg/kg]		<0.01	<0.01
• Phenanthrene [mg/kg]		<0.01	<0.01
• Anthracene [mg/kg]		<0.01	<0.01
• Fluoranthene [mg/kg]		<0.01	<0.01
• Pyrene [mg/kg]		<0.01	<0.01
• 1-Methylpyrene [mg/kg]		<0.01	<0.01
• Cyclopenta[cd]pyrene [mg/kg]		<0.01	<0.01
• Benzo[a]anthracene [mg/kg]	<0.50	<0.01	<0.01
• Chrysene [mg/kg]	<0.50	<0.01	<0.01
• Benzo[b]fluoranthene [mg/kg]	<0.50	<0.01	<0.01
• Benzo[k]fluoranthene [mg/kg]	<0.50	<0.01	<0.01
• Benzo[j]fluoranthene [mg/kg]	<0.50	<0.01	<0.01
• Benzo[e]pyrene [mg/kg]	<0.50	<0.01	<0.01
• Benzo[a]pyrene [mg/kg]	<0.50	<0.01	<0.01
• Dibenzo[ah]anthracene [mg/kg]	<0.50	<0.01	<0.01
• Indeno[1,2,3-cd]pyrene [mg/kg]		<0.01	<0.01
• Benzo[ghi]perylene [mg/kg]		<0.01	<0.01
• Dibenzo[ae]pyrene [mg/kg]		<0.01	<0.01
• Dibenzo[al]pyrene [mg/kg]		<0.01	<0.01
• Dibenzo[ai]pyrene [mg/kg]		<0.01	<0.01
• Dibenzo[ah]pyrene [mg/kg]		<0.01	<0.01
• Sum [mg/kg]	<5.0	<0.01	<0.01

	OEKO- TEX® STANDARD 100 Product Class I Annex 6	#1 CLY Filament yarn White S.P120D	#4 CLY Filament yarn White R.A80D
<b>Surfactants, Wetting Agent Residues</b> OEKO-TEX® Method 20			
Number of Tests		1	1
• 4-tert-butylphenol [mg/kg]		<2.0	<2.0
• Pentyphenol (PeP) [mg/kg]		<2.0	<2.0
• Hexylphenol (HxP) [mg/kg]		<2.0	<2.0
• Heptylphenol (HpP) [mg/kg]		<2.0	<2.0
• Octylphenol (OP) [mg/kg]		<2.0	<2.0
• Nonylphenol (NP) [mg/kg]		<2.0	<2.0
• Sum AP [mg/kg]	<5	<2.0	<2.0
• Octylphenoethoxylate (OPEO) [mg/kg]		<2.0	<2.0
• Nonylphenoethoxylate (NPEO) [mg/kg]		<2.0	<2.0
• Sum AP & APEO [mg/kg]	<50	<2.0	<2.0

A determination of general odour has been carried out on all submitted samples. No abnormal odour has been detected.



## 7 Remarks

### Period of Validity

There are no regulations concerning duration of validity in the individual test standards. As the results of the examinations refer only to the submitted and examined samples, the report is valid for these for an unlimited period. A period of validity specified as part of an expert evaluation is in the discretion of the consultant or TESTEX. The applicability of results and expert evaluations for materials not tested is in the responsibility of the applicant. Whereby an apportionment of results as well as any specified period of validity can only be done for identically constructed products and only as long as the product is produced unchanged. Possible national or international restrictions concerning the terms of usability of test and classification reports have to be considered; this is not the responsibility of the test laboratory.

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This test report is only issued as a PDF. Translations will be marked accordingly on the cover sheet.

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End of Report