

**Registered**

HUNAN MH GARMENT ACCESSORIES CO., LTD  
No 18 North Qiaojahe Road  
Lixian Economic Development Zone  
Changde Hunan  
China

**Your Reference**

**Customer Number** 56515  
**Contact Person** Liu Guobing  
**E-Mail** 671258937@qq.com

Zurich/ 10.01.2025 / urru

**Test Report SH005 254443.1**

**Application**

6. Renewal of certificate SH005 149888 - OEKO-TEX® STANDARD 100, Product Class I, Annex 6

**Test Material**

8 PES sewing threads

**Issuing**

Original Issuing, 10.01.2025  
Number Of Included Pages: 16

**TESTEX AG**

Swiss Textile Testing Institute



**Dijana Ajdinovic**

Ecology Team Leader



**Lisa Finizio**

Ecology Advisor



Annex:

Certificate SH005 149888 valid to 15.03.2026



## 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	5	6	7	8
pH-Value OEKO-TEX® Method 1 (ISO 3071:2020 - KCl)		p			p	p	p	
Formaldehyde OEKO-TEX® Method 2.2 - JIS L-1041			p					p
Heavy Metals OEKO-TEX® Method 3.1 (Extract)		p		p		p		p
Chlorinated Phenols and OPP OEKO-TEX® Method 5	p					p		
Azo Dyes OEKO-TEX® Method 11.1 (Extract)		p	p		p			p
Allergenic and Carcinogenic Dyes & Quinoline OEKO-TEX® Method 11.3 & 18	p			p	p			p
Chlorinated Benzenes & Toluenes OEKO-TEX® Method 12		p		p	p	p		
Polycyclic Aromatic Hydrocarbons (PAH) OEKO-TEX® Method 13	p		p				p	p
Solvent Residues OEKO-TEX® Method 14			p				p	
VOCs (Volatile Organic Compounds), Glycols, Cresols OEKO-TEX® Method 17			p				p	
Surfactants, Wetting Agent Residues OEKO-TEX® Method 20		p		p		p		p
Phenol OEKO-TEX® Method 24	p				p			
Bisphenols OEKO-TEX® Method 25		p					p	
Colour Fastness To Saliva And Perspiration OEKO-TEX® Method 26-A	p	p	p	p	p	p		p

Colour Fastness To Perspiration OEKO-TEX® Method 26-B (EN ISO 105-E04)	p			p	p			p
Colour Fastness To Water OEKO-TEX® Method 26-C (EN ISO 105-E01)	p			p	p			p
Colour Fastness To Rubbing OEKO-TEX® Method 26-D (EN ISO 105-X12)	p			p	p			p
Phthalates & Siloxanes OEKO-TEX® Method 6 & 6.1		p					p	

- 1: 100%PES Sewing Thread Dyed Orange Red
- 2: 100%PES Sewing Thread Dyed Red
- 3: 100%PES Sewing Thread Dyed Orange Yellow
- 4: 100%PES Sewing Thread Dyed Violet
- 5: 100%PES Sewing Thread Dyed Navy Blue
- 6: 100%PES Sewing Thread Dyed Blue
- 7: 100%PES Sewing Thread white
- 8: 100%PES Sewing Thread Dyed Black

### 3 Scope Of Application

An application with the appropriate OEKO-TEX® forms was submitted for **Sewing thread made of 100% polyester, bleached, dyed (in a limited range of 20 disperse dyestuffs) and finished.**

The application is for the 6. Renewal of certificate SH005 149888 - OEKO-TEX® STANDARD 100, Product Class I, Annex 6.

### 4 Samples

No.	Receipt	Sample Identification
1	19.12.2024	100%PES Sewing Thread Dyed Orange Red
2	19.12.2024	100%PES Sewing Thread Dyed Red
3	19.12.2024	100%PES Sewing Thread Dyed Orange Yellow
4	19.12.2024	100%PES Sewing Thread Dyed Violet
5	19.12.2024	100%PES Sewing Thread Dyed Navy Blue
6	19.12.2024	100%PES Sewing Thread Dyed Blue
7	19.12.2024	100%PES Sewing Thread white
8	19.12.2024	100%PES Sewing Thread Dyed Black

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

## 5 Photo Overview

#1 Image 1



100%PES Sewing Thread  
Dyed Orange Red

#2 Image 1



100%PES Sewing Thread  
Dyed Red

#3 Image 1



100%PES Sewing Thread  
Dyed Orange Yellow

#4 Image 1



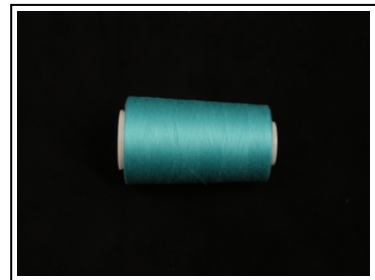
100%PES Sewing Thread  
Dyed Violet

#5 Image 1



100%PES Sewing Thread  
Dyed Navy Blue

#6 Image 1



100%PES Sewing Thread  
Dyed Blue

#7 Image 1



100%PES Sewing Thread  
white

#8 Image 1



100%PES Sewing Thread  
Dyed Black

## 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	#2 100%PES Sewing Thread Dyed Red	#5 100%PES Sewing Thread Dyed Navy Blue	#6 100%PES Sewing Thread Dyed Blue	#7 100%PES Sewing Thread white
<b>pH-Value</b> OEKO-TEX® Method 1 (ISO 3071:2020 - KCl) Number of Tests • Aqueous extract	[pH]	2 6.1	2 5.9	2 5.9	2 5.7
	>=4.0 <=7.5				

	OEKO-TEX® STANDARD 100 Product Class I Annex 6	#3 100%PES Sewing Thread Dyed Orange Yellow	#8 100%PES Sewing Thread Dyed Black
<b>Formaldehyde</b> OEKO-TEX® Method 2.2 - JIS L-1041 Number of Tests • Free formaldehyde	[mg/kg]	1 <16	1 <16
	<16		

	OEKO-TEX® STANDARD 100 Product Class I Annex 6	#2 100%PES Sewing Thread Dyed Red	#4 100%PES Sewing Thread Dyed Violet	#6 100%PES Sewing Thread Dyed Blue	#8 100%PES Sewing Thread Dyed Black
<b>Heavy Metals</b> OEKO-TEX® Method 3.1 (Extract) Number of Tests		1	1	1	1
• Antimony [mg/kg]	<30	<0.1	<0.1	<0.1	<0.1
• Arsenic [mg/kg]	<0.20	<0.02	<0.02	<0.02	<0.02
• Lead [mg/kg]	<0.20	0.04	0.04	0.05	0.06
• Cadmium [mg/kg]	<0.10	<0.02	<0.02	<0.02	<0.02
• Chromium total [mg/kg]	<1.0	<0.02	<0.02	<0.02	<0.02
• Cobalt [mg/kg]	<1.0	<0.02	<0.02	<0.02	<0.02
• Copper [mg/kg]	<25	<1.0	<1.0	<1.0	<1.0
• Nickel [mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• Mercury [mg/kg]	<0.02	<0.006	<0.006	<0.006	<0.006
• Selenium [mg/kg]	<100	<0.40	<0.40	<0.40	<0.40
• Zinc [mg/kg]	<750	<2.00	<2.00	<2.00	<2.00
• Manganese [mg/kg]	<90	<0.40	<0.40	<0.40	<0.40
• Barium [mg/kg]	<1000	<2.00	2.2	<2.00	<2.00

OEKO- TEX® STANDARD 100 Product Class I Annex 6	#1 100%PES Sewing Thread Dyed Orange Red	#6 100%PES Sewing Thread Dyed Blue
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<b>Chlorinated Phenols and OPP</b> OEKO-TEX® Method 5			
Number of Tests			1
• OPP (Orthophenylphenol)	[mg/kg]	<10	<0.05
• Pentachlorophenol (PCP)	[mg/kg]	<0.05	<0.01
• 2,3,5,6-TeCP	[mg/kg]		<0.01
• 2,3,4,6-TeCP	[mg/kg]		<0.01
• 2,3,4,5-TeCP	[mg/kg]		<0.01
• Tetrachlorophenols (TeCP, Sum)	[mg/kg]	<0.05	<0.01
• 2,3,4-TrCP	[mg/kg]		<0.01
• 2,3,5-TrCP	[mg/kg]		<0.01
• 2,3,6-TrCP	[mg/kg]		<0.01
• 2,4,5-TrCP	[mg/kg]		<0.01
• 2,4,6-TrCP	[mg/kg]		<0.01
• 3,4,5-TrCP	[mg/kg]		<0.01
• Trichlorophenols (TrCP, Sum)	[mg/kg]	<0.20	<0.01
• 2,4/2,5-DCP	[mg/kg]		<0.01
• 2,6-DCP	[mg/kg]		<0.01
• 2,3-DCP	[mg/kg]		<0.01
• 3,4-DCP	[mg/kg]		<0.01
• 3,5-DCP	[mg/kg]		<0.01
• Dichlorophenols (DCP, Sum)	[mg/kg]	<0.50	<0.01
• 2-MCP	[mg/kg]		<0.01
• 3-MCP	[mg/kg]		<0.01
• 4-MCP	[mg/kg]		<0.01
• Monochlorophenols (MCP, Sum)	[mg/kg]	<0.50	<0.01



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OEKO- TEX® STANDARD 100 Product Class I Annex 6	#2 100%PES Sewing Thread Dyed Red	#3 100%PES Sewing Thread Dyed Orange Yellow	#5 100%PES Sewing Thread Dyed Navy Blue	#8 100%PES Sewing Thread Dyed Black
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<b>Azo Dyes</b> OEKO-TEX® Method 11.1 (Extract) Number of Tests			1	1	1	1
• Aniline	[mg/kg]	<20	<5.0	<5.0	<5.0	<5.0
• o-Toluidine	[mg/kg]	<20	<10	<10	<10	<10
• 2,4-Xylidine	[mg/kg]	<20	<10	<10	<10	<10
• 2,6-Xylidine	[mg/kg]	<20	<10	<10	<10	<10
• o-Anisidine	[mg/kg]	<20	<10	<10	<10	<10
• p-Anisidine	[mg/kg]		<10	<10	<10	<10
• p-Chloraniline	[mg/kg]	<20	<10	<10	<10	<10
• p-Cresidine	[mg/kg]	<20	<10	<10	<10	<10
• 2,4,5-Trimethylaniline	[mg/kg]	<20	<10	<10	<10	<10
• 4-Chloro-o-toluidine	[mg/kg]	<20	<10	<10	<10	<10
• 2,4-Toluylenediamine	[mg/kg]	<20	<10	<10	<10	<10
• 2,4-Diaminoanisole	[mg/kg]	<20	<10	<10	<10	<10
• 2-Naphthylamine	[mg/kg]	<20	<10	<10	<10	<10
• 2-Amino-4-nitrotoluene	[mg/kg]	<20	<10	<10	<10	<10
• 4-Aminodiphenyl	[mg/kg]	<20	<10	<10	<10	<10
• 4,4'-Oxydianiline	[mg/kg]	<20	<10	<10	<10	<10
• Benzidine	[mg/kg]	<20	<10	<10	<10	<10
• 4,4'-Diaminodiphenylmethane	[mg/kg]	<20	<10	<10	<10	<10
• o-Aminoazotoluene	[mg/kg]	<20	<10	<10	<10	<10
• 3,3'-Dimethyl-4,4'- diaminodiphenylmethane	[mg/kg]	<20	<10	<10	<10	<10
• 3,3'-Dimethylbenzidine	[mg/kg]	<20	<10	<10	<10	<10
• 4,4'-Thiodianiline	[mg/kg]	<20	<10	<10	<10	<10
• 3,3'-Dichlorobenzidine	[mg/kg]	<20	<10	<10	<10	<10
• 4,4'-Methylene-bis-(2-chloraniline)	[mg/kg]	<20	<10	<10	<10	<10
• 3,3'-Dimethoxybenzidine	[mg/kg]	<20	<10	<10	<10	<10
• 1,4-Phenylenediamine	[mg/kg]		<5	<5	<5	<5
• N-Methylaniline	[mg/kg]		<10	<10	<10	<10
• 3,3-Diaminobenzidin	[mg/kg]	<20	<10	<10	<10	<10
• 2-Amino-5-nitrothiazole	[mg/kg]		<10	<10	<10	<10
• 4-Ethoxyaniline	[mg/kg]	<20	<10	<10	<10	<10
• 2,5-Diaminotoluene	[mg/kg]	<20	<10	<10	<10	<10



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		OEKO- TEX® STANDARD 100 Product Class I Annex 6	#1 100%PES Sewing Thread Dyed Orange Red	#4 100%PES Sewing Thread Dyed Violet	#5 100%PES Sewing Thread Dyed Navy Blue	#8 100%PES Sewing Thread Dyed Black
<b>Allergenic and Carcinogenic Dyes &amp; Quinoline</b>						
OEKO-TEX® Method 11.3 & 18						
Number of Tests						
			1	1	1	1
• C.I. Disperse Blue 1*	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Blue 3	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Blue 7	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Blue 26	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Blue 35	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Blue 102	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Blue 106	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Blue 124	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Orange 1	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Orange 3	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Orange 11*	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Orange 37/76	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Orange 149	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Red 1	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Red 11	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Red 17	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Yellow 1	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Yellow 3*	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Yellow 9	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Yellow 23°	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Yellow 39S	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Yellow 49	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Brown 1	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Yellow 39	[mg/kg]	<20	<10	<10	<10	<10
• Quinoline	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Basic Green 4	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Solvent Yellow 34	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Disperse Orange 61	[mg/kg]		<10	<10	<10	<10
• C.I. Basic Red 9	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Solvent Yellow 2	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Solvent Yellow 3	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Solvent Yellow 14	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Basic Violet 3	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Basic Violet 14	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Acid Violet 49	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Basic Violet 1	[mg/kg]	<20	<10	<10	<10	<10
• C.I. Basic Blue 26	[mg/kg]	<20	<10	<10	<10	<10
• Michler's Ketone	[mg/kg]	<1000	<10	<10	<10	<10
• Michler's Base	[mg/kg]	<1000	<10	<10	<10	<10
• C.I. Basic Violet 10	[mg/kg]		<10	<10	<10	<10





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OEKO- TEX® STANDARD 100 Product Class I Annex 6	#2 100%PES Sewing Thread Dyed Red	#4 100%PES Sewing Thread Dyed Violet	#5 100%PES Sewing Thread Dyed Navy Blue	#6 100%PES Sewing Thread Dyed Blue
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<b>Chlorinated Benzenes &amp; Toluenes</b>					
OEKO-TEX® Method 12					
Number of Tests			1	1	1
• Chlorobenzene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2-Chlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 3-Chlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 4-Chlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 1,3-Dichlorobenzene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• Benzylchloride	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 1,4-Dichlorobenzene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 1,2-Dichlorobenzene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,4-Dichlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,5-/ 2,6-Dichlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 1,3,5-Trichlorobenzene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• α,α-Dichlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,3-/ 3,4-Dichlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 1,2,4-Trichlorobenzene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 1,2,3-Trichlorobenzene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• α,α,α-Trichlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,4,5-Trichlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,3,6-Trichlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 3,4,5-Trichlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,3,4-Trichlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,4,6-Trichlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 1,2,3,5-Tetrachlorobenzene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 1,2,4,5-Tetrachlorobenzene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• α,2,6-Trichlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• α,2,4-Trichlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 1,2,3,4-Tetrachlorobenzene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,3,4,5-Tetrachlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,3,4,6-TeCT / 2,3,5,6-TeCT	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• α,3,4-Trichlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• α,α,α,2-Tetrachlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• Pentachlorobenzene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,3,4,5,6-Pentachlorotoluene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• Hexachlorobenzene	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• Sum	[mg/kg]	<1.0	<0.01	<0.01	<0.01



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<b>Polycyclic Aromatic Hydrocarbons (PAH)</b>						
OEKO-TEX® Method 13						
Number of Tests						
• Naphthalene	[mg/kg]	<2.0	1	1	1	1
• Acenaphthylene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• Acenaphthene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• Fluorene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• Phenanthrene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• Anthracene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• Fluoranthene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• Pyrene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• 1-Methylpyrene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• Cyclopenta[cd]pyrene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• Benzo[a]anthracene	[mg/kg]	<0.50	<0.01	<0.01	<0.01	<0.01
• Chrysene	[mg/kg]	<0.50	<0.01	<0.01	<0.01	<0.01
• Benzo[b]fluoranthene	[mg/kg]	<0.50	<0.01	<0.01	<0.01	<0.01
• Benzo[k]fluoranthene	[mg/kg]	<0.50	<0.01	<0.01	<0.01	<0.01
• Benzo[j]fluoranthene	[mg/kg]	<0.50	<0.01	<0.01	<0.01	<0.01
• Benzo[e]pyrene	[mg/kg]	<0.50	<0.01	<0.01	<0.01	<0.01
• Benzo[a]pyrene	[mg/kg]	<0.50	<0.01	<0.01	<0.01	<0.01
• Dibenzo[ah]anthracene	[mg/kg]	<0.50	<0.01	<0.01	<0.01	<0.01
• Indeno[1,2,3-cd]pyrene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• Benzo[ghi]perylene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• Dibenzo[ae]pyrene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• Dibenzo[al]pyrene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• Dibenzo[ai]pyrene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• Dibenzo[ah]pyrene	[mg/kg]		<0.01	<0.01	<0.01	<0.01
• Sum	[mg/kg]	<5.0	<0.01	<0.01	<0.01	<0.01

		OEKO- TEX® STANDARD 100 Product Class I Annex 6	#3 100%PES Sewing Thread Dyed Orange Yellow	#7 100%PES Sewing Thread white
<b>Solvent Residues</b>				
OEKO-TEX® Method 14				
Number of Tests				
• Benzene	[mg/kg]	<1.00	1	1
• Formamide	[mg/kg]	<200	<20.0	<20.0
• Dimethylformamide (DMF)	[mg/kg]	<500	<20.0	<20.0
• N,N-dimethylacetamide (DMAc)	[mg/kg]	<500	<20.0	<20.0
• N-Methylpyrrolidone (NMP)	[mg/kg]	<500	<20.0	<20.0
• N-ethyl-2-pyrrolidone (NEP)	[mg/kg]		<20.0	<20.0

	OEKO- TEX® STANDARD 100 Product Class I Annex 6	#3 100%PES Sewing Thread Dyed Orange Yellow	#7 100%PES Sewing Thread white
<b>VOCs (Volatile Organic Compounds), Glycols, Cresols</b>			
OEKO-TEX® Method 17			
Number of Tests		1	1
• Dichloromethane [mg/kg]	<1.0	<0.10	<0.10
• Chloroform [mg/kg]	<1.0	<0.10	<0.10
• Tetrachloromethane [mg/kg]	<1.0	<0.10	<0.10
• 1,1-Dichloroethane [mg/kg]	<1.0	<0.10	<0.10
• 1,2-Dichloroethane [mg/kg]	<1.0	<0.10	<0.10
• 1,1,1-Trichloroethane [mg/kg]	<1.0	<0.10	<0.10
• 1,1,2-Trichloroethane [mg/kg]	<1.0	<0.10	<0.10
• 1,1,1,2-Tetrachloroethane [mg/kg]	<1.0	<0.10	<0.10
• 1,1,2,2-Tetrachloroethane [mg/kg]	<1.0	<0.10	<0.10
• Pentachloroethane [mg/kg]	<1.0	<0.10	<0.10
• 1,1-Dichloroethylene [mg/kg]	<1.0	<0.10	<0.10
• 1,2-Dichloroethylene [mg/kg]	<1.0	<0.10	<0.10
• Trichloroethylene [mg/kg]	<1.0	<0.10	<0.10
• Tetra(per)chloroethylene [mg/kg]	<1.0	<0.10	<0.10
• Sum of Chlorinated solvents [mg/kg]	<5.0	<0.10	<0.10
• Methyl ethyl ketone [mg/kg]	<10.0	<0.10	<0.10
• Ethylbenzene [mg/kg]	<10.0	<0.10	<0.10
• Xylene (all isomers) [mg/kg]	<10.0	<0.10	<0.10
• Cyclohexanone [mg/kg]	<10.0	<0.10	<0.10
• 2-Ethoxyethylacetate [mg/kg]	<10.0	<0.10	<0.10
• 1,2,3-Trichloropropane [mg/kg]	<10.0	<0.10	<0.10
• Acetophenone [mg/kg]	<10.0	<0.10	<0.10
• 2-Phenyl-2-propanol [mg/kg]	<10.0	<0.10	<0.10
• Bis(2-methoxyethyl)ether [mg/kg]	<10.0	<0.10	<0.10
• Styrene [mg/kg]	<10.0	<0.10	<0.10
• Benzene [mg/kg]	<1.0	<0.10	<0.10
• Toluene [mg/kg]	<10.0	<0.10	<0.10
• 2-Ethoxyethanol [mg/kg]	<10.0	<0.10	<0.10
• Ethylene glycol dimethyl ether [mg/kg]	<10.0	<0.10	<0.10
• 2-Methoxyethanol [mg/kg]	<10.0	<0.10	<0.10
• 2-Methoxyethylacetate [mg/kg]	<10.0	<0.10	<0.10
• 2-Methoxypropylacetate [mg/kg]	<10.0	<0.10	<0.10
• Triethylene glycol dimethyl ether [mg/kg]	<10.0	<0.10	<0.10
• o-Cresol [mg/kg]	<10.0	<0.10	<0.10
• m-Cresol [mg/kg]	<10.0	<0.10	<0.10
• p-Cresol [mg/kg]	<10.0	<0.10	<0.10
• 2-Methoxypropanol [mg/kg]	<10.0	<0.10	<0.10
• 1,2-Diethoxyethane [mg/kg]	<10.0	<0.10	<0.10
• 1,4-Dioxane [mg/kg]	<10.0	<1.0	<1.0



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OEKO- TEX® STANDARD 100 Product Class I Annex 6	#2 100%PES Sewing Thread Dyed Red	#4 100%PES Sewing Thread Dyed Violet	#6 100%PES Sewing Thread Dyed Blue	#8 100%PES Sewing Thread Dyed Black
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<b>Surfactants, Wetting Agent Residues</b> OEKO-TEX® Method 20					
Number of Tests			1	1	1
• 4-tert-butylphenol	[mg/kg]		<2.0	<2.0	<2.0
• Pentylphenol (PeP)	[mg/kg]		<2.0	<2.0	<2.0
• Hexylphenol (HxP)	[mg/kg]		<2.0	<2.0	<2.0
• Heptylphenol (HpP)	[mg/kg]		<2.0	<2.0	<2.0
• Octylphenol (OP)	[mg/kg]		<2.0	<2.0	<2.0
• Nonylphenol (NP)	[mg/kg]		<2.0	<2.0	<2.0
• Sum AP	[mg/kg]	<5	<2.0	<2.0	<2.0
• Octylphenoethoxylate (OPEO)	[mg/kg]		<2.0	<2.0	<2.0
• Nonylphenoethoxylate (NPEO)	[mg/kg]		<2.0	<2.0	<2.0
• Sum AP & APEO	[mg/kg]	<50	<2.0	<2.0	<2.0

OEKO- TEX® STANDARD 100 Product Class I Annex 6	#1 100%PES Sewing Thread Dyed Orange Red	#5 100%PES Sewing Thread Dyed Navy Blue
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<b>Phenol</b> OEKO-TEX® Method 24 *				
Number of Tests			1	1
• Phenol	[mg/kg]	<20	<5.0	<5.0
• Resorcinol	[mg/kg]		<5.0	<5.0
• 2,4,6-tri-tert-butylphenol	[mg/kg]		<5.0	<5.0

OEKO-  
TEX®  
STANDARD  
100 Product  
Class I  
Annex 6

#2  
100%PES  
Sewing  
Thread  
Dyed Red

#7  
100%PES  
Sewing  
Thread  
white

<b>Bisphenols</b> OEKO-TEX® Method 25				
Number of Tests			1	1
• Bisphenol A	[mg/kg]	<100	<10	<10
• Bisphenol AF	[mg/kg]		<10	<10
• Bisphenol AP	[mg/kg]		<10	<10
• Bisphenol B	[mg/kg]	<1000	<10	<10
• Bisphenol BP	[mg/kg]		<10	<10
• Bisphenol C	[mg/kg]		<10	<10
• Bisphenol E	[mg/kg]		<10	<10
• Bisphenol F	[mg/kg]		<10	<10
• Bisphenol FL	[mg/kg]		<10	<10
• Bisphenol M	[mg/kg]		<10	<10
• Bisphenol P	[mg/kg]		<10	<10
• Bisphenol PH	[mg/kg]		<10	<10
• Bisphenol S	[mg/kg]	<1000	<10	<10
• Bisphenol Z	[mg/kg]		<10	<10
• Methyl-Bisphenol C	[mg/kg]		<10	<10
• 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (Vulkanox)	[mg/kg]	<1000	<10	<10
• Bis(4-chlorophenyl) sulphone (DCDPS)	[mg/kg]	<1000	<10	<10
• Diphenyl (2,4,6-trimethylbenzoyl)phosphine oxide (DPPO)	[mg/kg]	<1000	<10	<10

OEKO-  
TEX®  
STANDARD  
100 Product  
Class I  
Annex 6

#1  
100%PES  
Sewing  
Thread  
Dyed  
Orange Red

#2  
100%PES  
Sewing  
Thread  
Dyed Red

#3  
100%PES  
Sewing  
Thread  
Dyed  
Orange  
Yellow

#4  
100%PES  
Sewing  
Thread  
Dyed Violet

<b>Colour Fastness To Saliva And Perspiration</b> OEKO-TEX® Method 26-A						
Number of Tests			1	1	1	1
• Colour fastness (saliva)	[yes/no]	yes	yes	yes	yes	yes
• Colour fastness (perspiration)	[yes/no]	yes	yes	yes	yes	yes

	OEKO- TEX® STANDARD 100 Product Class I Annex 6	#5 100%PES Sewing Thread Dyed Navy Blue	#6 100%PES Sewing Thread Dyed Blue	#8 100%PES Sewing Thread Dyed Black
<b>Colour Fastness To Saliva And Perspiration</b> OEKO-TEX® Method 26-A				
Number of Tests		1	1	1
• Colour fastness (saliva) [yes/no]	yes	yes	yes	yes
• Colour fastness (perspiration) [yes/no]	yes	yes	yes	yes

	OEKO- TEX® STANDARD 100 Product Class I Annex 6	#1 100%PES Sewing Thread Dyed Orange Red	#4 100%PES Sewing Thread Dyed Violet	#5 100%PES Sewing Thread Dyed Navy Blue	#8 100%PES Sewing Thread Dyed Black
<b>Colour Fastness To Perspiration</b> OEKO-TEX® Method 26-B (EN ISO 105-E04)					
Number of Tests		1	1	1	1
• Fastness to acid solution					
• Change in colour (Acid) [grade]		4-5	4-5	4-5	4-5
• Staining (acid) [grade]	>=3-4	4-5	4-5	4-5	4-5
• Fastness to alkaline solution					
• Change in colour (Alkaline) [grade]		4-5	4-5	4-5	4-5
• Staining (alkaline) [grade]	>=3-4	4-5	4-5	4-5	4-5

	OEKO- TEX® STANDARD 100 Product Class I Annex 6	#1 100%PES Sewing Thread Dyed Orange Red	#4 100%PES Sewing Thread Dyed Violet	#5 100%PES Sewing Thread Dyed Navy Blue	#8 100%PES Sewing Thread Dyed Black
<b>Colour Fastness To Water</b> OEKO-TEX® Method 26-C (EN ISO 105-E01)					
Number of Tests		1	1	1	1
• Change in colour [grade]		4-5	4-5	4-5	4-5
• Staining [grade]	>=3-4	4-5	4-5	4-5	4-5

	OEKO- TEX® STANDARD 100 Product Class I Annex 6	#1 100%PES Sewing Thread Dyed Orange Red	#4 100%PES Sewing Thread Dyed Violet	#5 100%PES Sewing Thread Dyed Navy Blue	#8 100%PES Sewing Thread Dyed Black
<b>Colour Fastness To Rubbing</b> OEKO-TEX® Method 26-D (EN ISO 105-X12)					
Number of Tests		1	1	1	1
• Staining in dry condition [grade]	>=4	4-5	4-5	4-5	4-5

OEKO- TEX® STANDARD 100 Product Class I Annex 6	#2 100%PES Sewing Thread Dyed Red	#7 100%PES Sewing Thread white
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<b>Phthalates &amp; Siloxanes</b>				
OEKO-TEX® Method 6 & 6.1				
Number of Tests			1	1
• DMP	[mg/kg]	<100	<10	<10
• DEP	[mg/kg]	<100	<10	<10
• DPrP	[mg/kg]	<100	<10	<10
• DIBP	[mg/kg]	<100	<10	<10
• DBP	[mg/kg]	<100	<10	<10
• DMEP	[mg/kg]	<100	<10	<10
• DIPP	[mg/kg]	<100	<10	<10
• NPIPP	[mg/kg]	<100	<10	<10
• DPP	[mg/kg]	<100	<10	<10
• DIHxP	[mg/kg]	<100	<10	<10
• DHxP	[mg/kg]	<100	<10	<10
• BBP	[mg/kg]	<100	<10	<10
• DIHP*	[mg/kg]	<100	<10	<10
• DIOP	[mg/kg]	<100	<10	<10
• DCHP	[mg/kg]	<100	<10	<10
• DEHP	[mg/kg]	<100	<10	<10
• DNOP	[mg/kg]	<100	<10	<10
• DINP*	[mg/kg]	<100	<10	<10
• DNP*	[mg/kg]	<100	<10	<10
• DIDP	[mg/kg]	<100	<10	<10
• DUP*	[mg/kg]		<10	<10
• Sum w/ DINP	[mg/kg]	<250	<10	<10
• Sum w/o DINP	[mg/kg]		<10	<10
• * Components of DHNUP	[mg/kg]			
• DDDP	[mg/kg]		<10	<10
• D4 (Octamethylcyclotetrasiloxane)	[mg/kg]	<1000	<100	<100
• D5 (Decamethylcyclopentasiloxane)	[mg/kg]	<1000	<100	<100
• D6 (Dodecamethylcyclohexasiloxane)	[mg/kg]	<1000	<100	<100
• Tris(2-methoxyethoxy)vinylsilane	[mg/kg]	<1000	<100	<100

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.

### Sample Material

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End of Report