

Registered

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Test Report TP001 209516.1

Application

15. Renewal of certificate TPAO 054092 - based partly on materials already certified according to STANDARD 100 by OEKO-TEX®, Product Class I, Annex 4

Test Material

2 Delrin (POM) elements, dyed; 2 PES tapes with coil and 6 PES tapes, raw or dope-dyed in black or piece-dyed, with or without flame retardant; 4 zine alloy sliders, raw or painted; 1 aluminum wire for top & bottom stopper in raw; 1 PA reinforcement film tape, for testing.

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TESTEX AG

Swiss Textile Testing Institute



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Annex:

Certificate TPAO 054092 valid to 15.11.2023

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	9	10
pH-Value OEKO-TEX® Method 1 (ISO 3071:2020 - KCl)		p		p		p		p	p	p
Formaldehyde OEKO-TEX® Method 2 - JIS L-1041	p		p		p		p			
Heavy Metals OEKO-TEX® Method 3.1 (Extract)		p		p	p	p		p		
Heavy Metals OEKO-TEX® Method 3.1 (Extract; inorganic accessories)										
Heavy Metals OEKO-TEX® Method 3.1 (incl. EN 12472)										
Heavy Metals OEKO-TEX® Method 3.2 (Digestion)	p		p							
Chlorinated Phenols and OPP OEKO-TEX® Method 5		p		p			p			
Plasticisers OEKO-TEX® Method 6	p		p							
Organic Tin Compounds OEKO-TEX® Method 7		p		p	p			p		
Azo Dyes OEKO-TEX® Method 11.1 (direct)	p	p								
Azo Dyes OEKO-TEX® Method 11.1 (Extract)			p	p		p		p		
Disperse Dyes OEKO-TEX® Method 11.3/11.4			p		p	p	p			

Chlorinated Benzenes & Toluenes OEKO-TEX® Method 12	p			p				p		
Polycyclic Aromatic Hydrocarbons (PAH) OEKO-TEX® Method 13	p	p							p	p
Solvent Residues OEKO-TEX® Method 14	p		p							
Surfactants, Wetting Agent Residues OEKO-TEX® Method 15		p		p		p	p		p	p
Colour Fastness To Water OEKO-TEX® Method 20-C (EN ISO 105-E01)	p		p	p	p				p	
Colour Fastness To Perspiration OEKO-TEX® Method 20-B (EN ISO 105-E04)	p		p	p	p				p	
Colour Fastness To Saliva And Perspiration OEKO-TEX® Method 20-A	p	p	p	p	p	p	p	p	p	

- 1: Delrin POM teeth dyed A red
- 2: Delrin POM teeth dyed B forest
- 3: PES tape + coil piece-dyed A grey
- 4: PES tape + coil piece-dyed B brown
- 5: PES tape piece-dyed C black
- 6: PES tape piece-dyed D coffee
- 7: PES tape piece-dyed E purple
- 8: PES tape piece-dyed F violet
- 9: PES flame retar. tape dope-dyed black
- 10: PES flame retardant tape raw white

	Sample								
	11	12	13	14	15	16	17	18	19
pH-Value OEKO-TEX® Method 1 (ISO 3071:2020 - KCl)									p
Formaldehyde OEKO-TEX® Method 2 - JIS L-1041	p								p
Heavy Metals OEKO-TEX® Method 3.1 (Extract)									p
Heavy Metals OEKO-TEX® Method 3.1 (Extract; inorganic accessories)	p			p		p		p	
Heavy Metals OEKO-TEX® Method 3.1 (incl. EN 12472)	p					p			
Heavy Metals OEKO-TEX® Method 3.2 (Digestion)		p	p		p		p	p	p
Chlorinated Phenols and OPP OEKO-TEX® Method 5						p			
Plasticisers OEKO-TEX® Method 6	p								p
Organic Tin Compounds OEKO-TEX® Method 7	p			p		p			p
Azo Dyes OEKO-TEX® Method 11.1 (direct)	p					p			
Azo Dyes OEKO-TEX® Method 11.1 (Extract)									
Disperse Dyes OEKO-TEX® Method 11.3/11.4									
Chlorinated Benzenes & Toluenes OEKO-TEX® Method 12				p					

Polycyclic Aromatic Hydrocarbons (PAH) OEKO-TEX® Method 13									
Solvent Residues OEKO-TEX® Method 14						p			p
Surfactants, Wetting Agent Residues OEKO-TEX® Method 15	p								p
Colour Fastness To Water OEKO-TEX® Method 20-C (EN ISO 105-E01)									
Colour Fastness To Perspiration OEKO-TEX® Method 20-B (EN ISO 105-E04)									
Colour Fastness To Saliva And Perspiration OEKO-TEX® Method 20-A									

- 11: Zinc alloy slider painted in navy
- 12: Index 11 metal part
- 13: Index 11 painted part
- 14: Zinc alloy slider painted in green
- 15: Index 14 painted part
- 16: Zinc alloy slider painted in black
- 17: Zinc alloy slider raw
- 18: Aluminium wire for top+bottom stopper raw
- 19: PA reinforcement film with white PES tape

3 Scope Of Application

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

Zippers (assembled or in individual parts) consisting of:

- Polyester tape and coil, piece-dyed (with disperse dyestuffs)
- Polyester tape in raw white and dope-dyed in black (produced with fibres accepted by OEKO-TEX® having flame retardant properties)
- Delrin (TEPCON® POM) teeth, pin & box, dyed (in a limited range of 6 pigments);
- Zinc alloy slider, raw or painted (in a limited range of 8 pigments)
- Aluminum top & bottom stopper, raw
- Nylon reinforcement film in transparent for zipper tape, excluding dyed film (based on material partly pre-certified according to STANDARD 100 by OEKO-TEX®).

The application is for the 15. Renewal of certificate TPAO 054092 - based partly on materials already certified according to STANDARD 100 by OEKO-TEX®, Product Class I, Annex 4.

4 Samples

No.	Receipt	Sample Identification
1	11.10.2022	Delrin POM, teeth, dyed A, red
2	11.10.2022	Delrin POM, teeth, dyed B, forest
3	11.10.2022	PES, tape + coil, piece-dyed A, grey
4	11.10.2022	PES, tape + coil, piece-dyed B, brown
5	11.10.2022	PES, tape, piece-dyed C, black
6	11.10.2022	PES, tape, piece-dyed D, coffee
7	11.10.2022	PES, tape, piece-dyed E, purple
8	11.10.2022	PES, tape, piece-dyed F, violet
9	11.10.2022	PES, flame retar. tape, dope-dyed, black
10	11.10.2022	PES, flame retardant, tape, raw white
11	11.10.2022	Zinc alloy, slider, painted in, navy
12	11.10.2022	Index 11, metal part
13	11.10.2022	Index 11, painted part
14	11.10.2022	Zinc alloy, slider, painted in, green
15	11.10.2022	Index 14, painted part
16	11.10.2022	Zinc alloy, slider, painted in, black
17	11.10.2022	Zinc alloy, slider, raw
18	11.10.2022	Aluminium, wire, for top+bottom stopper, raw
19	11.10.2022	PA, reinforcement film, with white PES tape

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

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

5 Photo Overview

#1



Delrin POM teeth dyed A red

#2



Delrin POM teeth dyed B forest

#3



PES tape + coil piece-dyed A grey

#4



PES tape + coil piece-dyed B brown

#5



PES tape piece-dyed C black

#6



PES tape piece-dyed D coffee

#7



PES tape piece-dyed E purple

#8



PES tape piece-dyed F violet

#9



PES flame retar. tape dope-dyed black

#10



PES flame retardant tape raw white

#11



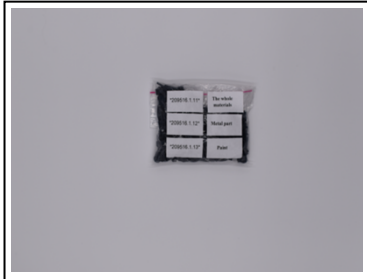
Zinc alloy slider painted in navy

#12



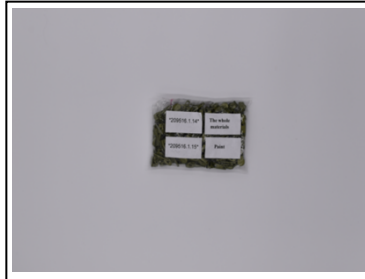
Index 11 metal part

#13



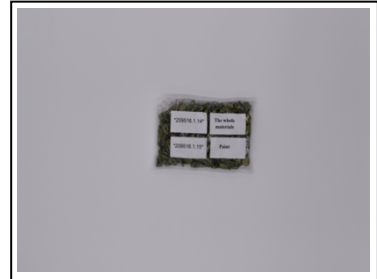
Index 11 painted part

#14



Zinc alloy slider painted in green

#15



Index 14 painted part

#16



Zinc alloy slider painted in black

#17



Zinc alloy slider raw

#18



Aluminium wire for top+bottom stopper raw

#19



PA reinforcement film with white PES tape

6 Tests Performed / Results

As required in the STANDARD 100 by OEKO-TEX® 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 STANDARD 100 by OEKO-TEX® and the testing procedure laid down in “STANDARD 100 by OEKO-TEX®-Testing Procedures”.

	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#2 Delrin POM teeth dyed B forest	#4 PES tape + coil piece-dyed B brown	#6 PES tape piece-dyed D coffee	#8 PES tape piece-dyed F violet
pH-Value OEKO-TEX® Method 1 (ISO 3071:2020 - KCI) Number of Tests • Aqueous extract	[pH]	2 6.5	2 6.5	2 6.5	2 6.4
		>=4.0 <=7.5			

	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#9 PES flame retar. tape dope-dyed black	#10 PES flame retardant tape raw white	#19 PA reinforcement film with white PES tape
pH-Value OEKO-TEX® Method 1 (ISO 3071:2020 - KCI) Number of Tests • Aqueous extract	[pH]	2 6.3	2 6.4	2 6.4
		>=4.0 <=7.5		

	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#1 Delrin POM teeth dyed A red	#3 PES tape + coil piece-dyed A grey	#5 PES tape piece-dyed C black	#7 PES tape piece-dyed E purple
Formaldehyde OEKO-TEX® Method 2 - JIS L-1041 Number of Tests • Free formaldehyde	[mg/kg]	1 <16	1 <16	1 <16	1 <16
		<16			

STANDARD	#11	#19
100 by	Zinc alloy	PA
OEKO-	slider	reinforcement
TEX®	painted in	film
Product	navy	with white PES
Class I		tape
Annex 4		

Formaldehyde OEKO-TEX® Method 2 - JIS L-1041				
Number of Tests			1	1
• Free formaldehyde	[mg/kg]	<16	<16	<16

STANDARD	#2	#4	#5	#6
100 by	Delrin POM	PES	PES	PES
OEKO-	teeth	tape + coil	tape	tape
TEX®	dyed B	piece-dyed	piece-dyed	piece-dyed
Product	forest	B	C	D
Class I		brown	black	coffee
Annex 4				

Heavy Metals 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	<0.02	<0.02	<0.02	<0.02
• 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]		<2.00	<2.00	<2.00	<2.00
• Manganese	[mg/kg]		<0.40	<0.40	<0.40	<0.40
• Barium	[mg/kg]	<1000	<2.00	<2.00	<2.00	<2.00

		STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#8 PES tape piece-dyed F violet	#19 PA reinforcement film with white PES tape
Heavy Metals OEKO-TEX® Method 3.1 (Extract)				
Number of Tests			1	1
• Antimony	[mg/kg]	<30	<0.1	0.29
• 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	<0.02	<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]		<2.00	<2.00
• Manganese	[mg/kg]		<0.40	<0.40
• Barium	[mg/kg]	<1000	<2.00	<2.00

		STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#11 Zinc alloy slider painted in navy	#14 Zinc alloy slider painted in green	#16 Zinc alloy slider painted in black	#18 Aluminium wire for top+bottom stopper raw
Heavy Metals OEKO-TEX® Method 3.1 (Extract; inorganic accessories)						
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	<0.02	<0.02	<0.02	<0.02
• 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]		<1.00	<1.00	<1.00	<1.00
• Nickel	[mg/kg]	<0.50	<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]		6.1	10	12	<2.00
• Manganese	[mg/kg]		<0.40	<0.40	<0.40	<0.40
• Barium	[mg/kg]	<1000	<2.00	<2.00	<2.00	<2.00

		STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#11 Zinc alloy slider painted in navy	#16 Zinc alloy slider painted in black
Heavy Metals OEKO-TEX® Method 3.1 (incl. EN 12472)				
Number of Tests			1	1
• Nickel	[mg/kg]	<0.50	<0.10	<0.10
• Lead	[mg/kg]		<0.10	<0.10

		STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#1 Delrin POM teeth dyed A red	#3 PES tape + coil piece-dyed A grey	#12 Index 11 metal part	#13 Index 11 painted part
Heavy Metals OEKO-TEX® Method 3.2 (Digestion)						
Number of Tests			1	1	1	1
• Lead	[mg/kg]	<90	<4.0	<4.0	20	<4.0
• Cadmium	[mg/kg]	<40	<0.20	<0.20	1.7	<0.20
• Antimony	[mg/kg]		44	150	<0.20	<0.20
• Mercury	[mg/kg]	<0.5	<0.006	<0.006	<0.006	<0.006
• Arsenic	[mg/kg]	<100	<0.20	<0.20	<0.20	5.5

		STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#15 Index 14 painted part	#17 Zinc alloy slider raw	#18 Aluminium wire for top+bottom stopper raw	#19 PA reinforcement film with white PES tape
Heavy Metals OEKO-TEX® Method 3.2 (Digestion)						
Number of Tests			1	1	1	1
• Lead	[mg/kg]	<90	<4.0	19	11	<4.0
• Cadmium	[mg/kg]	<40	<0.20	8.5	<0.20	<0.20
• Antimony	[mg/kg]		<0.20	<0.20	<0.20	78
• Mercury	[mg/kg]	<0.5	<0.006	<0.006	<0.006	<0.006
• Arsenic	[mg/kg]	<100	3.6	<0.20	<0.20	<0.20



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	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#2 Delrin POM teeth dyed B forest	#4 PES tape + coil piece-dyed B brown	#7 PES tape piece-dyed E purple	#16 Zinc alloy slider painted in black
Chlorinated Phenols and OPP					
OEKO-TEX® Method 5					
Number of Tests					
• OPP (Orthophenylphenol)	[mg/kg]	<10	1	1	1
• Pentachlorophenol (PCP)	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• 2,3,5,6-TeCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,3,4,6-TeCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,3,4,5-TeCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• Tetrachlorophenols (TeCP, Sum)	[mg/kg]	<0.05	<0.01	<0.01	<0.01
• 2,3,4-TrCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,3,5-TrCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,3,6-TrCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,4,5-TrCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,4,6-TrCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 3,4,5-TrCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• Trichlorophenols (TrCP, Sum)	[mg/kg]	<0.20	<0.01	<0.01	<0.01
• 2,4/2,5-DCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,6-DCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 2,3-DCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 3,4-DCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 3,5-DCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• Dichlorophenols (DCP, Sum)	[mg/kg]	<0.50	<0.01	<0.01	<0.01
• 2-MCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 3-MCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• 4-MCP	[mg/kg]	<0.01	<0.01	<0.01	<0.01
• Monochlorophenols (MCP, Sum)	[mg/kg]	<0.50	<0.01	<0.01	<0.01



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	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#1 Delrin POM teeth dyed A red	#3 PES tape + coil piece-dyed A grey	#11 Zinc alloy slider painted in navy	#19 PA reinforcement film with white PES tape
Plasticisers					
OEKO-TEX® Method 6					
Number of Tests		1	1	1	1
• DMP [%]		<0.001	<0.001	<0.001	<0.001
• DEP [%]		<0.001	<0.001	<0.001	<0.001
• DPtP [%]		<0.001	<0.001	<0.001	<0.001
• DIBP [%]		<0.001	<0.001	<0.001	<0.001
• DBP [%]		<0.001	<0.001	<0.001	<0.001
• DMEP [%]		<0.001	<0.001	<0.001	<0.001
• DIPP [%]		<0.001	<0.001	<0.001	<0.001
• NPIP [%]		<0.001	<0.001	<0.001	<0.001
• DPP [%]		<0.001	<0.001	<0.001	<0.001
• DIHxP [%]		<0.001	<0.001	<0.001	<0.001
• DHxP [%]		<0.001	<0.001	<0.001	<0.001
• BBP [%]		<0.001	<0.001	<0.001	<0.001
• DIHP* [%]		<0.001	<0.001	<0.001	<0.001
• DIOP [%]		<0.001	<0.001	<0.001	<0.001
• DCHP [%]		<0.001	<0.001	<0.001	<0.001
• DEHP [%]		<0.001	<0.001	<0.001	<0.001
• DNOP [%]		<0.001	<0.001	<0.001	<0.001
• DINP* [%]		<0.001	<0.001	<0.001	<0.001
• DNP [%]		<0.001	<0.001	<0.001	<0.001
• DIDP [%]		<0.001	<0.001	<0.001	<0.001
• DUP* [%]		<0.001	<0.001	<0.001	<0.001
• Sum w/ DINP [%]	<0.05	<0.001	<0.001	<0.001	<0.001
• Sum w/o DINP [%]		<0.001	<0.001	<0.001	<0.001
• * Components of DHNUP					
• D4 (Octamethylcyclotetrasiloxane) [%]	<0.10	<0.01	<0.01	<0.01	<0.01
• D5 (Decamethylcyclopentasiloxane) [%]	<0.10	<0.01	<0.01	<0.01	<0.01
• D6 (Dodecamethylcyclohexasiloxane) [%]	<0.10	<0.01	<0.01	<0.01	<0.01



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	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#2 Delrin POM teeth dyed B forest	#4 PES tape + coil piece-dyed B brown	#5 PES tape piece-dyed C black	#8 PES tape piece-dyed F violet
Organic Tin Compounds					
OEKO-TEX® Method 7					
Number of Tests		1	1	1	1
• Trimethyltin (TMT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Dimethyltin (DMT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Monomethyltin (MMT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Tetraethyltin (TeET) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Dipropyltin (DPT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Monobutyltin (MBT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Tripropyltin (TPT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Dibutyltin (DBT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Monophenyltin (MPhT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Tributyltin (TBT) [mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Monoctyltin (MOT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Tetrabutyltin (TeBT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Diphenyltin (DPhT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Dioctyltin (DOT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Tricyclohexyltin (TCT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Triphenyltin (TPhT) [mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Tetraoctyltin (TeOT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05
• Trioctyltin (TOT) [mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05



TESTEX®

	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#11 Zinc alloy slider painted in navy	#14 Zinc alloy slider painted in green	#16 Zinc alloy slider painted in black	#19 PA reinforceme nt film with white PES tape
Organic Tin Compounds					
OEKO-TEX® Method 7					
Number of Tests					
		1	1	1	1
• Trimethyltin (TMT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Dimethyltin (DMT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Monomethyltin (MMT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Tetraethyltin (TeET)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Dipropyltin (DPT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Monobutyltin (MBT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Tripropyltin (TPT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Dibutyltin (DBT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Monophenyltin (MPhT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Tributyltin (TBT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05
• Monoctyltin (MOT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Tetrabutyltin (TeBT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Diphenyltin (DPhT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Dioctyltin (DOT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Tricyclohexyltin (TCT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Triphenyltin (TPhT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05
• Tetraoctyltin (TeOT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05
• Trioctyltin (TOT)	[mg/kg]	<1.0	<0.05	<0.05	<0.05



TESTEX®

	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#1 Delrin POM teeth dyed A red	#2 Delrin POM teeth dyed B forest	#11 Zinc alloy slider painted in navy	#16 Zinc alloy slider painted in black
Azo Dyes					
OEKO-TEX® Method 11.1 (direct)					
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-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-Toluenediamine [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]		<10	<10	<10	<10
• N-Methylaniline [mg/kg]		<10	<10	<10	<10
• 3,3-Diaminobenzidin [mg/kg]		<10	<10	<10	<10
• 2-Amino-5-nitrothiazole [mg/kg]		<10	<10	<10	<10
• 4-Ethoxyaniline [mg/kg]		<10	<10	<10	<10
• 2,5-Diaminotoluene [mg/kg]		<10	<10	<10	<10



TESTEX®

	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#3 PES tape + coil piece-dyed A grey	#4 PES tape + coil piece-dyed B brown	#6 PES tape piece-dyed D coffee	#8 PES tape piece-dyed F violet
Azo Dyes					
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-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-Toluenediamine [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]		<10	<10	<10	<10
• 2-Amino-5-nitrothiazole [mg/kg]		<10	<10	<10	<10
• 4-Ethoxyaniline [mg/kg]		<10	<10	<10	<10
• 2,5-Diaminotoluene [mg/kg]		<10	<10	<10	<10



TESTEX®

	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#3 PES tape + coil piece-dyed A grey	#5 PES tape piece-dyed C black	#6 PES tape piece-dyed D coffee	#7 PES tape piece-dyed E purple
Disperse Dyes					
OEKO-TEX® Method 11.3/11.4					
Number of Tests					
		1	1	1	1
• C.I. Disperse Blue 1*	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Blue 3	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Blue 7	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Blue 26	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Blue 35	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Blue 102	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Blue 106	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Blue 124	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Orange 1	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Orange 3	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Orange 11*	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Orange 37/76	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Orange 149	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Red 1	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Red 11	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Red 17	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Yellow 1	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Yellow 3*	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Yellow 9	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Yellow 23°	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Yellow 39S	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Yellow 49	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Brown 1	[mg/kg]	<50	<10	<10	<10
• C.I. Disperse Yellow 39	[mg/kg]	<50	<10	<10	<10
• Quinoline	[mg/kg]	<50	<10	<10	<10
• C.I. Basic Green 4	[mg/kg]	<50	<10	<10	<10
• C.I. Solvent Yellow 34	[mg/kg]		<10	<10	<10
• C.I. Basic Violet 1	[mg/kg]	<50	<10	<10	<10
• C.I. Basic Blue 26	[mg/kg]	<50	<10	<10	<10
• Michlers Keton	[mg/kg]		<10	<10	<10
• Michlers Base	[mg/kg]		<10	<10	<10



TESTEX®

STANDARD		#1	#4	#8	#14
100 by OEKO- TEX® Product Class I Annex 4		Delrin POM teeth dyed A red	PES tape + coil piece-dyed B brown	PES tape piece-dyed F violet	Zinc alloy slider painted in green
Chlorinated Benzenes & Toluenes					
OEKO-TEX® Method 12					
Number of Tests					
		1	1	1	1
• Chlorobenzene	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• 2-Chlorotoluene	[mg/kg]	<0.02	<0.02	<0.02	<0.02
• 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]	0.02	0.02	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]	<0.02	<0.02	<0.02	<0.02
• 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	0.02	0.01	0.01



TESTEX®

	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#1 Delrin POM teeth dyed A red	#2 Delrin POM teeth dyed B forest	#9 PES flame retar. tape dope-dyed black	#10 PES flame retardant tape raw white
Polycyclic Aromatic Hydrocarbons (PAH)					
OEKO-TEX® Method 13					
Number of Tests		1	1	1	1
• Naphthalene [mg/kg]		<0.01	<0.01	<0.01	<0.01
• 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



TESTEX®

STANDARD	#1	#3	#16	#19
100 by OEKO- TEX® Product Class I Annex 4	Delrin POM teeth dyed A red	PES tape + coil piece-dyed A grey	Zinc alloy slider painted in black	PA reinforcement film with white PES tape

Solvent Residues						
OEKO-TEX® Method 14						
Number of Tests			1	1	1	1
• Benzene	[mg/kg]	<5.00	<0.10	<0.10	<0.10	<0.10
• Formamide	[%]	<0.020	<0.010	<0.010	<0.010	<0.010
• Dimethylformamide (DMF)	[%]	<0.05	<0.01	<0.01	<0.01	<0.01
• N,N-dimethylacetamide (DMAc)	[%]	<0.05	<0.01	<0.01	<0.01	<0.01
• N-Methylpyrrolidone (NMP)	[%]	<0.05	<0.01	<0.01	<0.01	<0.01

STANDARD	#2	#4	#6	#7
100 by OEKO- TEX® Product Class I Annex 4	Delrin POM teeth dyed B forest	PES tape + coil piece-dyed B brown	PES tape piece-dyed D coffee	PES tape piece-dyed E purple

Surfactants, Wetting Agent Residues						
OEKO-TEX® Method 15						
Number of Tests			1	1	1	1
• 4-tert-butylphenol	[mg/kg]		<2.0	<2.0	<2.0	<2.0
• Pentylphenol (PeP)	[mg/kg]		<2.0	<2.0	<2.0	<2.0
• Heptylphenol (HpP)	[mg/kg]		<2.0	<2.0	<2.0	<2.0
• Octylphenol (OP)	[mg/kg]		<2.0	<2.0	<2.0	<2.0
• Nonylphenol (NP)	[mg/kg]		<2.0	<2.0	<2.0	<2.0
• Sum AP	[mg/kg]	<10	<2.0	<2.0	<2.0	<2.0
• Octylphenoethoxylate (OPEO)	[mg/kg]		<2.0	<2.0	<2.0	<2.0
• Nonylphenoethoxylate (NPEO)	[mg/kg]		<2.0	<2.0	<2.0	<2.0
• Sum AP & APEO	[mg/kg]	<100	<2.0	<2.0	<2.0	<2.0



TESTEX®

STANDARD	#9	#10	#11	#19
100 by OEKO- TEX® Product Class I Annex 4	PES flame retar. tape dope-dyed black	PES flame retardant tape raw white	Zinc alloy slider painted in navy	PA reinforcement film with white PES tape

Surfactants, Wetting Agent Residues					
OEKO-TEX® Method 15					
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
• 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]	<10	<2.0	<2.0	<2.0
• Octylphenoethoxylate (OPEO)	[mg/kg]		<2.0	<2.0	11.0
• Nonylphenoethoxylate (NPEO)	[mg/kg]		<2.0	<2.0	<2.0
• Sum AP & APEO	[mg/kg]	<100	<2.0	<2.0	11.0

STANDARD	#1	#3	#4	#5
100 by OEKO- TEX® Product Class I Annex 4	Delrin POM teeth dyed A red	PES tape + coil piece-dyed A grey	PES tape + coil piece-dyed B brown	PES tape piece-dyed C black

Colour Fastness To Water					
OEKO-TEX® Method 20-C (EN ISO 105-E01)					
Number of Tests			1	1	1
• Change in colour	[grade]		5	5	5
• Staining	[grade]	>=3-4	4-5	4-5	4

STANDARD	#9
100 by OEKO- TEX® Product Class I Annex 4	PES flame retar. tape dope-dyed black

Colour Fastness To Water			
OEKO-TEX® Method 20-C (EN ISO 105-E01)			
Number of Tests			1
• Change in colour	[grade]		5
• Staining	[grade]	>=3-4	4-5

	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#1 Delrin POM teeth dyed A red	#3 PES tape + coil piece-dyed A grey	#4 PES tape + coil piece-dyed B brown	#5 PES tape piece-dyed C black
Colour Fastness To Perspiration OEKO-TEX® Method 20-B (EN ISO 105-E04)					
Number of Tests		1	1	1	1
• Fastness to acid solution					
• Change in colour (acid) [grade]		5	5	5	5
• Staining (acid) [grade]	>=3-4	4-5	4-5	4-5	4-5
• Fastness to alkaline solution					
• Change in colour (alkaline) [grade]		5	5	5	5
• Staining (alkaline) [grade]	>=3-4	4-5	4-5	4-5	4-5

	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#9 PES flame retar. tape dope-dyed black
Colour Fastness To Perspiration OEKO-TEX® Method 20-B (EN ISO 105-E04)		
Number of Tests		1
• Fastness to acid solution		
• Change in colour (acid) [grade]		5
• Staining (acid) [grade]	>=3-4	4-5
• Fastness to alkaline solution		
• Change in colour (alkaline) [grade]		5
• Staining (alkaline) [grade]	>=3-4	4-5

	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#1 Delrin POM teeth dyed A red	#2 Delrin POM teeth dyed B forest	#3 PES tape + coil piece-dyed A grey	#4 PES tape + coil piece-dyed B brown
Colour Fastness To Saliva And Perspiration OEKO-TEX® Method 20-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

STANDARD	#5	#6	#7	#8
100 by OEKO- TEX® Product Class I Annex 4	PES tape piece-dyed C black	PES tape piece-dyed D coffee	PES tape piece-dyed E purple	PES tape piece-dyed F violet

Colour Fastness To Saliva And Perspiration OEKO-TEX® Method 20-A					
Number of Tests			1	1	1
• Colour fastness (saliva) [yes/no]	yes	yes	yes	yes	yes
• Colour fastness (perspiration) [yes/no]	yes	yes	yes	yes	yes

STANDARD	#9
100 by OEKO- TEX® Product Class I Annex 4	PES flame retar. tape dope-dyed black

Colour Fastness To Saliva And Perspiration OEKO-TEX® Method 20-A			
Number of Tests			1
• Colour fastness (saliva) [yes/no]	yes	yes	yes
• Colour fastness (perspiration) [yes/no]	yes	yes	yes

Base Certificates List

Active Base Certificates for TPAO 054092 (Kuang Suo Company Ltd.)

28.10.2022

Certificate holder	Certificate	Product class / Annex	Expiry date	Certificate state
Far Eastern New Century Corporation	TPFO 042351- TESTEX AG	I / 6	30.04.2023	Valid
Hung Chou Fiber Industrial Co., Ltd.	TPYO 073313- TESTEX AG	I / 6	31.01.2023	Valid

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

Results of performed tests only refer to the sample material provided. Without explicit written other agreement testing is destructive and the sample material is transferred to the property of TESTEX, which is entitled to freely decide on storage and disposal.

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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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All tests are performed under a quality management system according to EN ISO/IEC 17025. TESTEX is accredited as a testing laboratory by the Swiss national accreditation body (SAS). The scope of accreditation is listed on www.testex.com. An accreditation logo on the test report indicates that at least one test method is accredited. Non-accredited test methods are marked with *. However, these test procedures were also performed to the same quality level as the accredited tests. Sampling, which is usually performed by the customer, is outside the accredited range. Conformity statements are based on specifications of the cited standard. The "simple acceptance rule" is applied. This means that the measurement uncertainty is determined, but not taken into account for the conformity statement. Due to the system of mutual recognition of national accreditations (ILAC), this accreditation is valid worldwide. According to the Accreditation and Designation Ordinance (AkkBV), the accreditation mark may only be used by the accredited conformity assessment body.

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End of Report