



Registered

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Test Report TP001 176954.1

Application

13. 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, coloured; 2 PES tapes with coil; 6 PES tapes, raw or dyed, with or without flame retardant; 4 zinc alloy sliders, raw or painted; 1 aluminum wire for top & bottom stopper in raw; 1 PA reinforcement film tape.

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TESTEX AG

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Annex:



proven since 1846

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Certificate TPAO 054092 valid to 15.11.2021

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 - KCl)		p		p		p		p	p	p
Formaldehyde OEKO-TEX® Method 2 - JIS L-1041	p		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			



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Azo Dyes OEKO-TEX® Method 11.1 (direct)	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			p		
Polycyclic Aromatic Hydrocarbons (PAH) OEKO-TEX® Method 13		p	p				p			
Solvent Residues OEKO-TEX® Method 14	p			p		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	
Azo Dyes OEKO-TEX® Method 11.1 (4-AAB;Extract)				p	p					

- 1: Delrin POM teeth coloured A red
- 2: Delrin POM teeth coloured B forest
- 3: PES tape+coil dyed A grey
- 4: PES tape+coil dyed B brown
- 5: PES tape dyed C black
- 6: PES tape dyed D coffee
- 7: PES tape dyed E purple
- 8: PES tape dyed F violet
- 9: PES flame retardant tape dope-dyed in 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 - KCl)									p
Formaldehyde OEKO-TEX® Method 2 - JIS L-1041									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
Azo Dyes OEKO-TEX® Method 11.1 (direct)	p			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									
Polycyclic Aromatic Hydrocarbons (PAH) OEKO-TEX® Method 13	p								
Solvent Residues OEKO-TEX® Method 14									
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									
Azo Dyes OEKO-TEX® Method 11.1 (4-AAB;Extract)									



- 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: Aluminum wire for top+bottom stopper raw
- 19: PA reinforcement film transparent with 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, 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, coloured (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, excluding coloured film for zipper tape (based on material partly pre-certified according to STANDARD 100 by OEKO-TEX®).

The application is for the 13. 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	19.04.2021	Delrin POM, teeth, coloured A, red
2	19.04.2021	Delrin POM, teeth, coloured B, forest
3	19.04.2021	PES, tape+coil, dyed A, grey
4	19.04.2021	PES, tape+coil, dyed B, brown
5	19.04.2021	PES, tape, dyed C, black
6	19.04.2021	PES, tape, dyed D, coffee
7	19.04.2021	PES, tape, dyed E, purple
8	19.04.2021	PES, tape, dyed F, violet
9	19.04.2021	PES, flame retardant, tape, dope-dyed in black
10	19.04.2021	PES, flame retardant, tape, raw white
11	19.04.2021	Zinc alloy, slider, painted in, navy
12	19.04.2021	Index 11, metal part
13	19.04.2021	Index 11, painted part
14	19.04.2021	Zinc alloy, slider, painted in, green
15	19.04.2021	Index 14, painted part
16	19.04.2021	Zinc alloy, slider, painted in, black
17	19.04.2021	Zinc alloy, slider, raw
18	19.04.2021	Aluminum, wire, for top+bottom stopper, raw
19	19.04.2021	PA, reinforcement film, transparent with, 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 Image 1



Delrin POM teeth coloured A
red

#2 Image 1



Delrin POM teeth coloured B
forest

#3 Image 1



PES tape+coil dyed A grey

#4 Image 1



PES tape+coil dyed B brown

#5 Image 1



PES tape dyed C black

#6 Image 1



PES tape dyed D coffee

#7 Image 1



PES tape dyed E purple

#8 Image 1



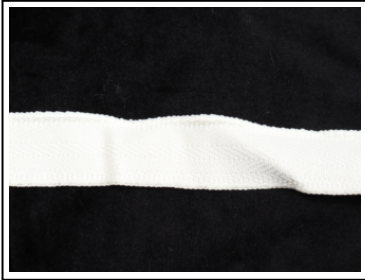
PES tape dyed F violet

#9 Image 1



PES flame retardant tape dope-
dyed in black

#10 Image 1



PES flame retardant tape raw white

#11 Image 1



Zinc alloy slider painted in navy

#12 Image 1



Index 11 metal part

#13 Image 1



Index 11 painted part

#14 Image 1



Zinc alloy slider painted in green

#15 Image 1



Index 14 painted part

#16 Image 1



Zinc alloy slider painted in black

#17 Image 1



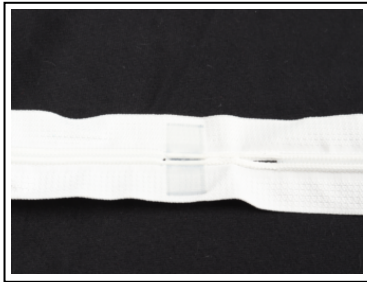
Zinc alloy slider raw

#18 Image 1



Aluminum wire for top+bottom stopper raw

#19 Image 1



PA reinforcement film
transparent with 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 coloured B forest	#4 PES tape+coil dyed B brown	#6 PES tape dyed D coffee	#8 PES tape dyed F violet
pH-Value OEKO-TEX® Method 1 (ISO 3071 - KCl) Number of Tests • Aqueous extract	[pH] >=4.0 <=7.5	2 5.8	2 6.4	2 6.3	2 6.1



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STANDARD	#9	#10	#19
100 by OEKO- TEX® Product Class I Annex 4	PES flame retardant tape dope-dyed in black	PES flame retardant tape raw white	PA reinforceme nt film transparent with PES tape

pH-Value OEKO-TEX® Method 1 (ISO 3071 - KCI)					
Number of Tests • Aqueous extract	[pH]	>=4.0 <=7.5	2 5.6	2 5.7	2 5.6

STANDARD	#1	#3	#5	#7
100 by OEKO- TEX® Product Class I Annex 4	Delrin POM teeth coloured A red	PES tape+coil dyed A grey	PES tape dyed C black	PES tape dyed E purple

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

STANDARD	#9	#19
100 by OEKO- TEX® Product Class I Annex 4	PES flame retardant tape dope-dyed in black	PA reinforceme nt film transparent with PES tape

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



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	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#2 Delrin POM teeth coloured B forest	#4 PES tape+coil dyed B brown	#6 PES tape dyed D coffee	#9 PES flame retardant tape dope-dyed in black
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	0.11
• 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	<0.01	<0.01	<0.01	<0.01
• 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	#10 PES flame retardant tape raw white	#19 PA reinforceme nt film transparent with PES tape
Heavy Metals OEKO-TEX® Method 3.1 (Extract)			
Number of Tests		1	1
• Antimony [mg/kg]	<30	<0.1	1.3
• 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	0.06	<0.02
• Copper [mg/kg]	<25	<1.0	<1.0
• Nickel [mg/kg]	<1.0	<0.10	<0.10
• Mercury [mg/kg]	<0.02	<0.01	<0.01
• 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



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	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 Aluminum 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	0.17	<0.1
• Arsenic [mg/kg]	<0.20	<0.02	<0.02	<0.02	0.03
• 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	2.1
• Nickel [mg/kg]	<0.50	<0.10	0.13	0.19	<0.10
• Mercury [mg/kg]	<0.02	<0.01	<0.01	<0.01	<0.01
• Selenium [mg/kg]	<100	<0.40	<0.40	<0.40	<0.40
• Zinc [mg/kg]		10	150	53	2.5
• 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	#18 Aluminum wire for top+bottom stopper raw
Heavy Metals OEKO-TEX® Method 3.1 (incl. EN 12472)			
Number of Tests		1	1
• Nickel [mg/kg]	<0.50	0.16	<0.10
• Lead [mg/kg]		<0.10	<0.10



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STANDARD	#1	#3	#12	#13
100 by OEKO- TEX® Product Class I Annex 4	Delrin POM teeth coloured A red	PES tape+coil dyed A grey	Index 11 metal part	Index 11 painted part

Heavy Metals OEKO-TEX® Method 3.2 (Digestion) Number of Tests						
• Lead	[mg/kg]	<90	1 <4.0	1 <4.0	1 16	1 42
• Cadmium	[mg/kg]	<40	<0.20	<0.20	0.94	<0.20
• Antimony	[mg/kg]		45	72	<0.20	<0.20
• Mercury	[mg/kg]	<0.5	<0.10	<0.10	<0.10	<0.10
• Arsenic	[mg/kg]	<100	<0.20	<0.20	<0.20	<0.20

STANDARD	#15	#17	#18	#19
100 by OEKO- TEX® Product Class I Annex 4	Index 14 painted part	Zinc alloy slider raw	Aluminum wire for top+bottom stopper raw	PA reinforceme nt film transparent with PES tape

Heavy Metals OEKO-TEX® Method 3.2 (Digestion) Number of Tests						
• Lead	[mg/kg]	<90	1 <4.0	1 16	1 31	1 <4.0
• Cadmium	[mg/kg]	<40	<0.20	0.96	28	<0.20
• Antimony	[mg/kg]		7.1	<0.20	22	190
• Mercury	[mg/kg]	<0.5	<0.10	<0.10	<0.10	<0.10
• Arsenic	[mg/kg]	<100	0.5	<0.20	<0.20	<0.20



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	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#2 Delrin POM teeth coloured B forest	#4 PES tape+coil dyed B brown	#5 PES tape dyed C black	#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	2
• Pentachlorophenol (PCP)	[mg/kg]	<0.05	<0.05	<0.05	0.19
• 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]	<0.05	<0.01	<0.01	<0.01
• 2,3,5-TrCP	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• 2,3,6-TrCP	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• 2,4,5-TrCP	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• 2,4,6-TrCP	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• 3,4,5-TrCP	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• Trichlorophenols (TrCP, Sum)	[mg/kg]	<0.20	<0.05	<0.05	<0.05
• 2,4/2,5-DCP	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• 2,6-DCP	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• 2,3-DCP	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• 3,4-DCP	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• 3,5-DCP	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• Dichlorophenols (DCP, Sum)	[mg/kg]	<0.50	<0.05	<0.05	<0.05
• 2-MCP	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• 3-MCP	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• 4-MCP	[mg/kg]	<0.05	<0.05	<0.05	<0.05
• Monochlorophenols (MCP, Sum)	[mg/kg]	<0.50	<0.05	<0.05	<0.05
• Phenol	[mg/kg]	<20	<5.0	<5.0	<5.0



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	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#1 Delrin POM teeth coloured A red	#3 PES tape+coil dyed A grey	#11 Zinc alloy slider painted in navy	#19 PA reinforce ment film transparent with 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
• DPrP [%]		<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
• NIPP [%]		<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					
• DDDP [%]		<0.001	<0.001	<0.001	<0.001
• Bisphenol A [%]	<0.010	<0.0001	<0.0001	<0.0001	<0.0001
• D4 (Octamethylcyclotetrasiloxane) [%]	<0.10	<0.001	<0.001	<0.001	<0.001
• D5 (Decamethylcyclopentasiloxane) [%]	<0.10	<0.001	<0.001	<0.001	<0.001
• D6 (Dodecamethylcyclohexasiloxane) [%]	<0.10	<0.001	<0.001	<0.001	<0.001



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	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#2 Delrin POM teeth coloured B forest	#4 PES tape+coil dyed B brown	#7 PES tape dyed E purple	#19 PA reinforceme nt film transparent with 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]		<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 coloured A red	#11 Zinc alloy slider painted in navy	#14 Zinc alloy slider painted in green	#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-Diamintoluene [mg/kg]		<10	<10	<10	<10



TESTEX®

	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#4 PES tape+coil dyed B brown	#5 PES tape dyed C black	#6 PES tape dyed D coffee	#8 PES tape dyed F violet
Azo Dyes					
OEKO-TEX® Method 11.1 (Extract)					
Number of Tests		2	2	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	16	<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-Diamintoluene [mg/kg]		<10	<10	<10	<10



TESTEX®

		STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#3 PES tape+coil dyed A grey	#5 PES tape dyed C black	#6 PES tape dyed D coffee	#7 PES tape 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	<10
• C.I. Disperse Blue 3	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Blue 7	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Blue 26	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Blue 35	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Blue 102	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Blue 106	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Blue 124	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Orange 1	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Orange 3	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Orange 11*	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Orange 37/76	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Orange 149	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Red 1	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Red 11	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Red 17	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Yellow 1	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Yellow 3*	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Yellow 9	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Yellow 23°	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Yellow 39S	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Yellow 49	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Brown 1	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Disperse Yellow 39	[mg/kg]	<50	<10	<10	<10	<10
• Quinoline	[mg/kg]	<50	<10	<10	<10	<10
• C.I. Basic Green 4	[mg/kg]	<50	<10	<10	<10	<10
• Solvent Yellow 34	[mg/kg]		<10	<10	<10	<10
• C.I. Disperse Orange 61	[mg/kg]		<10	<10	10	10



TESTEX®

STANDARD		#1	#4	#5	#8
100 by OEKO- TEX® Product Class I Annex 4		Delrin POM teeth coloured A red	PES tape+coil dyed B brown	PES tape dyed C black	PES tape dyed F violet
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]	0.05	0.05	<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]	<0.10	<0.10	<0.10	<0.10
• 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]	0.07	0.07	0.06	0.06
• Sum	[mg/kg]	<1.0	0.12	0.12	0.06



TESTEX®

STANDARD	#2	#3	#7	#11
100 by OEKO- TEX® Product Class I Annex 4	Delrin POM teeth coloured B forest	PES tape+coil dyed A grey	PES tape dyed E purple	Zinc alloy slider painted in navy

Polycyclic Aromatic Hydrocarbons (PAH)					
OEKO-TEX® Method 13					
Number of Tests			1	1	1
• Naphthalene	[mg/kg]		<0.01	<0.01	<0.01
• Acenaphthylene	[mg/kg]		<0.01	<0.01	<0.01
• Acenaphthene	[mg/kg]		<0.01	<0.01	<0.01
• Fluorene	[mg/kg]		<0.01	<0.01	<0.01
• Phenanthrene	[mg/kg]		0.04	0.04	0.08
• Anthracene	[mg/kg]		<0.01	<0.01	<0.01
• Fluoranthene	[mg/kg]		<0.01	<0.01	<0.01
• Pyrene	[mg/kg]		<0.01	<0.01	<0.01
• 1-Methylpyrene	[mg/kg]		<0.01	<0.01	<0.01
• Cyclopenta[cd]pyrene	[mg/kg]		<0.01	<0.01	<0.01
• Benzo[a]anthracene	[mg/kg]	<0.50	<0.01	<0.01	<0.01
• Chrysene	[mg/kg]	<0.50	<0.01	<0.01	<0.01
• Benzo[b]fluoranthene	[mg/kg]	<0.50	<0.01	<0.01	<0.01
• Benzo[k]fluoranthene	[mg/kg]	<0.50	<0.01	<0.01	<0.01
• Benzo[j]fluoranthene	[mg/kg]	<0.50	<0.01	<0.01	<0.01
• Benzo[e]pyrene	[mg/kg]	<0.50	<0.01	<0.01	<0.01
• Benzo[a]pyrene	[mg/kg]	<0.50	<0.01	<0.01	<0.01
• Dibenzo[ah]anthracene	[mg/kg]	<0.50	<0.01	<0.01	<0.01
• Indeno[1,2,3-cd]pyrene	[mg/kg]		<0.01	<0.01	<0.01
• Benzo[ghi]perylene	[mg/kg]		<0.01	<0.01	<0.01
• Dibenzo[ae]pyrene	[mg/kg]		<0.01	<0.01	<0.01
• Dibenzo[al]pyrene	[mg/kg]		<0.01	<0.01	<0.01
• Dibenzo[ai]pyrene	[mg/kg]		<0.01	<0.01	<0.01
• Dibenzo[ah]pyrene	[mg/kg]		<0.01	<0.01	<0.01
• Sum	[mg/kg]	<5.0	0.04	0.04	0.08



TESTEX®

	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#1 Delrin POM teeth coloured A red	#4 PES tape+coil dyed B brown	#6 PES tape dyed D coffee	#8 PES tape dyed F violet
Solvent Residues OEKO-TEX® Method 14 Number of Tests		1	1	1	1
• Benzene [mg/kg]	<5.00	<0.10	<0.10	<0.10	0.21
• Formamide [%]	<0.020	<0.010	<0.010	<0.010	<0.010
• Dimethylformamide (DMF) [%]	<0.10	<0.01	<0.01	<0.01	<0.01
• N,N-dimethylacetamide (DMAc) [%]	<0.10	<0.01	<0.01	<0.01	<0.01
• N-Methylpyrrolidone (NMP) [%]	<0.10	<0.01	<0.01	<0.01	<0.01
• 2-(2-Aminoethylamino)ethanol [mg/kg]		<1.0	<1.0	<1.0	<1.0

	STANDARD 100 by OEKO- TEX® Product Class I Annex 4	#2 Delrin POM teeth coloured B forest	#3 PES tape+coil dyed A grey	#5 PES tape dyed C black	#7 PES tape dyed E purple
Surfactants, Wetting Agent Residues OEKO-TEX® Method 15 Number of Tests		1	1	1	1
• Pentylphenol (PeP) [mg/kg]		<0.1	<0.1	<0.1	<0.1
• Heptylphenol (HpP) [mg/kg]		<0.1	<0.1	<0.1	<0.1
• Octylphenol (OP) [mg/kg]		<0.1	<0.1	<0.1	<0.1
• Nonylphenol (NP) [mg/kg]		<0.1	<0.1	<0.1	<0.1
• Sum AP [mg/kg]	<10	<0.1	<0.1	<0.1	<0.1
• Octylphenoethoxylate (OPEO) [mg/kg]		<1.0	<1.0	<1.0	<1.0
• Nonylphenoethoxylate (NPEO) [mg/kg]		<1.0	<1.0	<1.0	<1.0
• Sum AP & APEO [mg/kg]	<100	<0.1	<0.1	<0.1	<0.1
• Hexylphenol (HxP) [mg/kg]		<0.1	<0.1	<0.1	<0.1
• 4-tert-butylphenol [mg/kg]		<0.1	<0.1	<0.1	<0.1



TESTEX®

STANDARD	#9	#10	#11	#16
100 by OEKO- TEX® Product Class I Annex 4	PES flame retardant tape dope-dyed in black	PES flame retardant tape raw white	Zinc alloy slider painted in navy	Zinc alloy slider painted in black

Surfactants, Wetting Agent Residues					
OEKO-TEX® Method 15					
Number of Tests			1	1	1
• Pentylphenol (PeP)	[mg/kg]		<0.1	<0.1	<0.1
• Heptylphenol (HpP)	[mg/kg]		<0.1	<0.1	<0.1
• Octylphenol (OP)	[mg/kg]		<0.1	<0.1	<0.1
• Nonylphenol (NP)	[mg/kg]		<0.1	<0.1	<0.1
• Sum AP	[mg/kg]	<10	<0.1	<0.1	<0.1
• Octylphenoethoxylate (OPEO)	[mg/kg]		<1.0	<1.0	<1.0
• Nonylphenoethoxylate (NPEO)	[mg/kg]		<1.0	<1.0	<1.0
• Sum AP & APEO	[mg/kg]	<100	<0.1	<0.1	<0.1
• Hexylphenol (HxP)	[mg/kg]		<0.1	<0.1	<0.1
• 4-tert-butylphenol	[mg/kg]		<0.1	<0.1	<0.1

STANDARD	#1	#4	#5	#7
100 by OEKO- TEX® Product Class I Annex 4	Delrin POM teeth coloured A red	PES tape+coil dyed B brown	PES tape dyed C black	PES tape dyed E purple

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

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

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



TESTEX®

STANDARD	#1	#4	#5	#7
100 by OEKO- TEX® Product Class I Annex 4	Delrin POM teeth coloured A red	PES tape+coil dyed B brown	PES tape dyed C black	PES tape dyed E purple

STANDARD	#1	#4	#5	#7
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]	4-5	4-5	4-5	4-5
• Staining (acid) [grade]	>=3-4	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
• Remarks				

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

STANDARD	#9
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]	4-5
• Staining (acid) [grade]	>=3-4
• Fastness to alkaline solution	
• Change in colour (alkaline) [grade]	4-5
• Staining (alkaline) [grade]	>=3-4
• Remarks	

STANDARD	#1	#2	#3	#4
100 by OEKO- TEX® Product Class I Annex 4	Delrin POM teeth coloured A red	Delrin POM teeth coloured B forest	PES tape+coil dyed A grey	PES tape+coil dyed B brown

STANDARD	#1	#2	#3	#4
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
• Colour fastness (perspiration) [yes/no]	yes	yes	yes	yes



TESTEX®

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

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	#9
100 by	PES
OEKO-	flame
TEX®	retardant
Product	tape
Class I	dope-dyed
Annex 4	in black

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

STANDARD	#4	#5
100 by	PES	PES
OEKO-	tape+coil	tape
TEX®	dyed B	dyed C
Product	brown	black
Class I		
Annex 4		

Azo Dyes				
OEKO-TEX® Method 11.1 (4-AAB;Extract)				
Number of Tests			2	2
• 4-Aminoazobenzene	[mg/kg]	<20	<10	<10



7 Base Certificates List

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

12.05.2021

Certificate holder	Certificate	Product class / Annex	Expiry date	Certificate state
Far Eastern New Century Corporation	TPFO 042351-Testex	I / 6	30.04.2022	Valid
Hung Chou Fiber Industrial Co., Ltd.	TPYO 073313-TESTEX AG	I / 6	31.01.2022	Valid



8 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.

Issuing

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