TESTEX®

Registered
Far Eastern New Century Corporation
No. 369, Ya Tung Tuan, Wen San Road,
Wen San Li, 305497 Hsin Chu County
Taiwan

Your Reference
Customer Number 1309
Contact Person Huang Eddie
E-Mail eddiehuang@cfp.fenc.com

Zurich / 23.02.2021 / mipo

Test Report TP005 180686.1

Application
16. Renewal of certificate TPFO 042351 - STANDARD 100 by OEKO-TEX®, Product Class I, Annex 6

Test Material
16 samples of yarn (POY, DTY, HDI, FDY) made of PES, recycled PES and CDP, raw white, dope-dyed in black or green, with or without flame-retardant property, for testing.

Issuing
Original Issuing, 23.02.2021

Number Of Included Pages: 32

TESTEX AG
Swiss Textile Testing Institute

Carole Sägesser
Ecology Team Leader

Michéle Pötzsch
Ecology Advisor

cc: TESTEX Taipei

Annex:
Certificate TPFO 042351 valid to 30.04.2022

1 Summary

On the basis of the present application as well as test results of the tests carried out a certification according to STANDARD 100 by OEKO-TEX® can be issued for the requested article group .
This test report does not replace the certificate.
According to STANDARD 100 by OEKO-TEX® the authorization will be valid till 30.04.2022.
Also the regulations on harmful substances under the European REACh legislation, including the textile-relevant and current candidates for SVHC (Substances of Very High Concern) of the candidate list are considered.
The use of the label is only permitted based on a valid certificate and according to the regulations in STANDARD 100 by OEKO-TEX®. Particularly the use of the label is only permitted during the certification period for articles in the certified article group compliant with the limiting values. The label has to bear the certificate number and control name of the institute given on the certificate. Furthermore the use of the OEKO-TEX® mark is only allowed after full settlement of invoices for testing fees and certification costs.

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
Formaldehyde OEKO-TEX® Method 2 - JIS L-1041	p		p	p		p	p		p	
Heavy Metals OEKO-TEX® Method 3.1 (Extract)		p			p			p		p
Heavy Metals OEKO-TEX® Method 3.2 (Digestion)		p		p		p				
Chlorinated Phenols and OPP OEKO-TEX® Method 5			p				p			p
Organic Tin Compounds OEKO-TEX® Method 7	p			p	p	p			p	
Azo Dyes OEKO-TEX® Method 11.1 (direct)		p		p		p				
Disperse Dyes OEKO-TEX® Method 11.3/11.4		p		p		p				
Chlorinated Benzenes & Toluenes OEKO-TEX® Method 12		p		p		p	p	p		
Polycyclic Aromatic Hydrocarbons (PAH) OEKO-TEX® Method 13	p			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
Flame Retardants OEKO-TEX® Method 17 Brominated Substances										
Flame Retardants OEKO-TEX® Method 17 Phosphorinated Substances										
VOCs (Volatile Organic Compounds) OEKO-TEX® Method 19	p			p	p		p			
Colour Fastness To Rubbing OEKO-TEX® Method 20-D (EN ISO 105-X12)		p		p		p				

Colour Fastness To Water OEKO-TEX® Method 20-C (EN ISO 105-E01)		p		p		p				
Colour Fastness To Perspiration OEKO-TEX® Method 20-B (EN ISO 105-E04)		p		p		p				
Colour Fastness To Saliva And Perspiration OEKO-TEX® Method 20-A		p		p		p				
Chlorinated Paraffins (CPs) OEKO-TEX® Method 8										

1: PES filament POY FP71727 raw white
2: PES filament POY FP70487 dope-dyed in black
3: PES filament DTY FD2G3J28Q raw white
4: PES filament DTY FD2F3I31 dope-dyed in black
5: PES filament HDI FR2100A0 raw white
6: PES filament HDI FR1115K0 dope-dyed in black
7: Recycled PES filament POY FP61732R raw white
8: Recycled PES filament DTY FP2F11K2 raw white
9: PES filament DTY FD2F19M2 w/Flame. raw white
10: CDP filament POY FP62111 raw white

	Sample					
	11	12	13	14	15	16
pH-Value OEKO-TEX® Method 1 (ISO 3071 - KCl)		p		p	p	p
Formaldehyde OEKO-TEX® Method 2 - JIS L-1041	p		p			
Heavy Metals OEKO-TEX® Method 3.1 (Extract)		p		p	p	p
Heavy Metals OEKO-TEX® Method 3.2 (Digestion)		p				
Chlorinated Phenols and OPP OEKO-TEX® Method 5		p		p		p
Organic Tin Compounds OEKO-TEX® Method 7	p		p		p	
Azo Dyes OEKO-TEX® Method 11.1 (direct)		p				
Disperse Dyes OEKO-TEX® Method 11.3/11.4		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		p	p	
Surfactants, Wetting Agent Residues OEKO-TEX® Method 15		p	p		p	p
Flame Retardants OEKO-TEX® Method 17 Brominated Substances						p
Flame Retardants OEKO-TEX® Method 17 Phosphorinated Substances						p
VOCs (Volatile Organic Compounds) OEKO-TEX® Method 19	p	p		p	p	
Colour Fastness To Rubbing OEKO-TEX® Method 20-D (EN ISO 105-X12)		p				

Colour Fastness To Water OEKO-TEX® Method 20-C (EN ISO 105-E01)		p				
Colour Fastness To Perspiration OEKO-TEX® Method 20-B (EN ISO 105-E04)		p				
Colour Fastness To Saliva And Perspiration OEKO-TEX® Method 20-A		p				
Chlorinated Paraffins (CPs) OEKO-TEX® Method 8					p	p

11: PES FENC®-Celliant® filament DTY FD2F19H2 raw white
12: PES filament HDI FR1112G0 dope-dyed in green
13: PES FENC®-Phase change filament DTY FD2F1E2R raw white
14: Recycled PES filament FDY FF61907R raw white
15: CDP filament POY FP62082 w/Flame. raw white
16: Recycled PES filament DTY FD2F19M3 w/Flame. raw white

3 Scope Of Application

An application with the appropriate OEKO-TEX® forms was submitted for
100% polyester draw textured yarn (FENC®-Celliant®), raw white;
100% polyester draw textured yarn (FENC®-Phase change), raw white;
100% polyester, 100% recycled polyester filament yarn (POY, DTY, HDI, FDY), raw white, dope-dyed in black and green and/or 100% cationic dyeable polyester (POY), raw white (partly produced with products accepted by STANDARD 100 by OEKO-TEX® having flame-retardant properties).
The application is for the 16. Renewal of certificate TPFO 042351 - STANDARD 100 by OEKO-TEX®, Product Class I, Annex 6.

A signed declaration of conformity was submitted.

4 Samples

No.	Receipt	Sample Identification
1	03.02.2021	PES, filament, POY FP71727, raw white
2	03.02.2021	PES, filament, POY FP70487, dope-dyed in black
3	03.02.2021	PES, filament, DTY FD2G3J28Q, raw white
4	03.02.2021	PES, filament, DTY FD2F3I31, dope-dyed in black
5	03.02.2021	PES, filament, HDI FR2100A0, raw white
6	03.02.2021	PES, filament, HDI FR1115K0, dope-dyed in black
7	03.02.2021	Recycled PES, filament, POY FP61732R, raw white
8	03.02.2021	Recycled PES, filament, DTY FP2F11K2, raw white
9	03.02.2021	PES, filament, DTY FD2F19M2 w/Flame., raw white
10	03.02.2021	CDP, filament, POY FP62111, raw white
11	03.02.2021	PES, FENC®-Celliant® filament, DTY FD2F19H2, raw white
12	03.02.2021	PES, filament, HDI FR1112G0, dope-dyed in green
13	03.02.2021	PES, FENC®-Phase change filament, DTY FD2F1E2R, raw white
14	03.02.2021	Recycled PES, filament, FDY FF61907R, raw white
15	03.02.2021	CDP, filament, POY FP62082 w/Flame., raw white
16	03.02.2021	Recycled PES, filament, DTY FD2F19M3 w/Flame., raw white

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

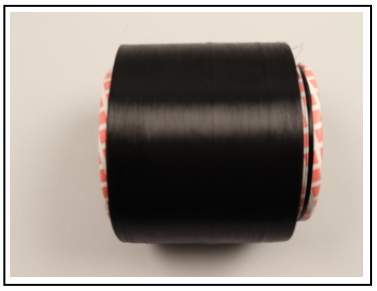
A determination of general odour has been carried out on all submitted samples. No abnormal odour has been detected.

5 Photo Overview

#1 Image 1

PES filament POY FP71727 raw white

#2 Image 1



PES filament POY FP70487 dope-dyed in black

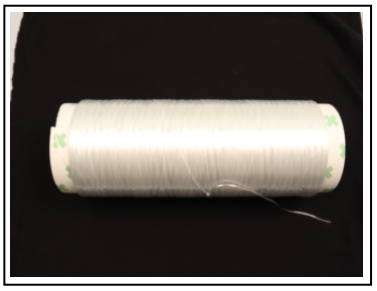
#3 Image 1

PES filament DTY FD2G3J28Q raw white

#4 Image 1

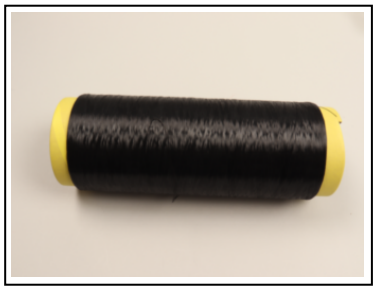
PES filament DTY FD2F3I31 dope-dyed in black

#5 Image 1



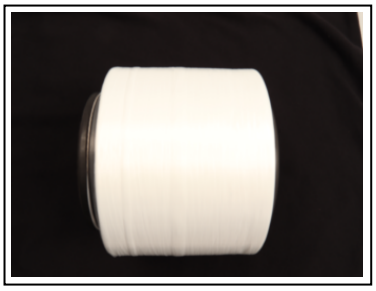
PES filament HDI FR2100A0 raw white

#6 Image 1



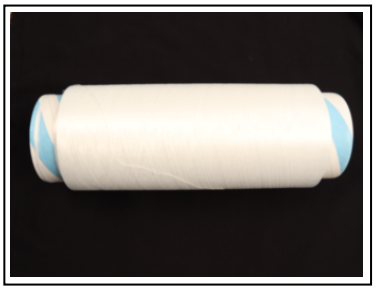
PES filament HDI FR1115K0 dope-dyed in black

#7 Image 1



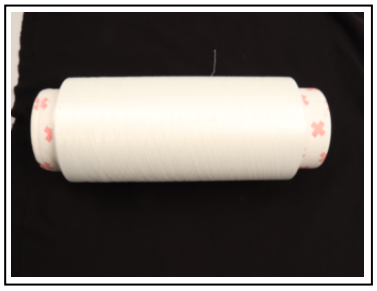
Recycled PES filament POY FP61732R raw white

#8 Image 1



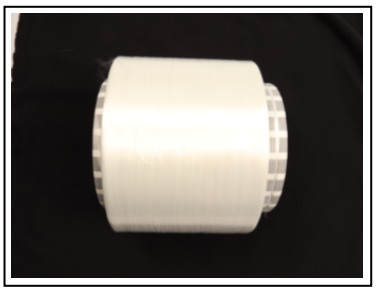
Recycled PES filament DTY FP2F11K2 raw white

#9 Image 1



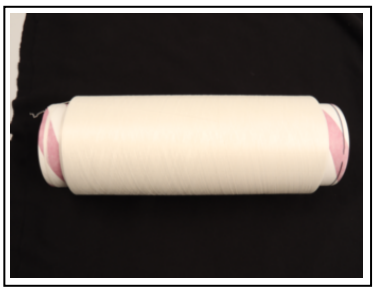
PES filament DTY FD2F19M2 w/Flame. raw white

#10 Image 1



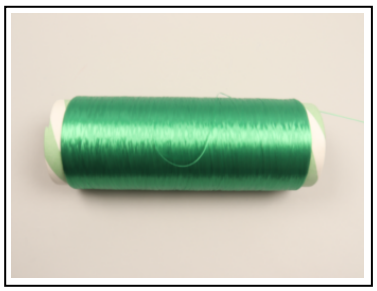
CDP filament POY FP62111 raw white

#11 Image 1



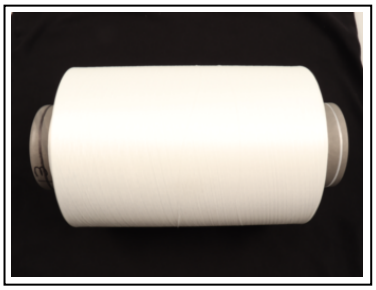
PES FENC®-Celliant® filament DTY FD2F19H2 raw white

#12 Image 1



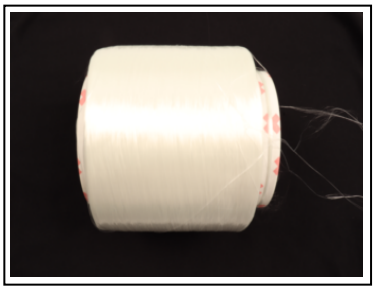
PES filament HDI FR1112G0 dope-dyed in green

#13 Image 1



PES FENC®-Phase change filament DTY FD2F1E2R raw white

#14 Image 1

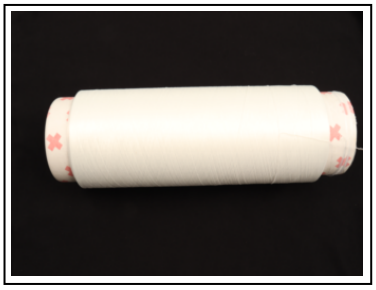


Recycled PES filament FDY FF61907R raw white

#15 Image 1

CDP filament POY FP62082 w/Flame. raw white

#16 Image 1



Recycled PES filament DTY FD2F19M3 w/Flame. raw white

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 6	#2 PES filament POY FP70487 dope-dyed in black	#5 PES filament HDI FR2100A0 raw white	#8 Recycled PES filament DTY FP2F11K2 raw white	#10 CDP filament POY FP62111 raw white
pH-Value						
OEKO-TEX® Method 1 (ISO 3071 - KCl)						
Number of Tests			2	2	2	2
• Aqueous extract	[pH]	>=4.0 <=7.5	5.8	5.9	6.0	5.8

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#12 PES filament HDI FR1112G0 dope-dyed in green	#14 Recycled PES filament FDY FF61907R raw white	#15 CDP filament POY FP62082 w/Flame. raw white	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white
pH-Value						
OEKO-TEX® Method 1 (ISO 3071 - KCl)						
Number of Tests			2	2	2	2
• Aqueous extract	[pH]	>=4.0 <=7.5	4.8	6.2	5.9	5.7

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#1 PES filament POY FP71727 raw white	#3 PES filament DTY FD2G3J28 Q raw white	#4 PES filament DTY FD2F3I31 dope-dyed in black	#6 PES filament HDI FR1115K0 dope-dyed in black
Formaldehyde						
OEKO-TEX® Method 2 - JIS L-1041						
Number of Tests			1	1	1	1
• Free formaldehyde	[mg/kg]	<16	<16	<16	<16	<16

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#7 Recycled PES filament POY FP61732R raw white	#9 PES filament DTY FD2F19M2 w/Flame. raw white	#11 PES FENC®-Celliant® filament DTY FD2F19H2 raw white	#13 PES FENC®-Phase change filament DTY FD2F1E2R raw white
Formaldehyde						
OEKO-TEX® Method 2 - JIS L-1041						
Number of Tests			1	1	1	1
• Free formaldehyde	[mg/kg]	<16	<16	<16	<16	<16

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#2 PES filament POY FP70487 dope-dyed in black	#5 PES filament HDI FR2100A0 raw white	#8 Recycled PES filament DTY FP2F11K2 raw white	#10 CDP filament POY FP62111 raw white
Heavy Metals						
OEKO-TEX® Method 3.1 (Extract)						
Number of Tests			1	1	1	1
• Antimony	[mg/kg]	<30	1.2	0.43	1.6	1.5
• Arsenic	[mg/kg]	<0.20	<0.02	<0.02	<0.02	<0.02
• Lead	[mg/kg]	<0.20	0.07	0.04	<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	0.12
• 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	<0.01	<0.01	<0.01	<0.01
• 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	<2.00	<2.00	<2.00

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#12 PES filament HDI FR1112G0 dope-dyed in green	#14 Recycled PES filament FDY FF61907R raw white	#15 CDP filament POY FP62082 w/Flame. raw white	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white
Heavy Metals OEKO-TEX® Method 3.1 (Extract)						
Number of Tests			1	1	1	1
• Antimony	[mg/kg]	<30	0.61	1.2	2.5	1.1
• 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	0.07	0.04	<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	<0.01	<0.01	<0.01	<0.01
• 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	<2.00	<2.00	<2.00

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#2 PES filament POY FP70487 dope-dyed in black	#4 PES filament DTY FD2F3I31 dope-dyed in black	#6 PES filament HDI FR1115K0 dope-dyed in black	#12 PES filament HDI FR1112G0 dope-dyed in green
Heavy Metals OEKO-TEX® Method 3.2 (Digestion)						
Number of Tests			1	1	1	1
• Lead	[mg/kg]	<75	<4.0	<4.0	<4.0	<4.0
• Cadmium	[mg/kg]	<40	<0.20	<0.20	<0.20	<0.20
• Antimony	[mg/kg]		130	160	220	190
• 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 100 by OEKO-TEX® Product Class I Annex 6	#3 PES filament DTY FD2G3J28 Q raw white	#7 Recycled PES filament POY FP61732R raw white	#10 CDP filament POY FP62111 raw white	#12 PES filament HDI FR1112G0 dope-dyed in green
Chlorinated Phenols and OPP						
OEKO-TEX® Method 5						
Number of Tests			1	1	1	1
• OPP (Orthophenylphenol)	[mg/kg]	<10	<0.05	<0.05	<0.05	<0.05
• Pentachlorophenol (PCP)	[mg/kg]	<0.05	<0.01	<0.01	<0.01	<0.01
• 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	<0.01
• 2,3,4-TrCP	[mg/kg]		<0.05	<0.05	<0.05	<0.05
• 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	<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	<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	<0.05
• Phenol	[mg/kg]	<20	<5.0	<5.0	<5.0	<5.0

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#14 Recycled PES filament FDY FF61907R raw white	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white
Chlorinated Phenols and OPP OEKO-TEX® Method 5				
Number of Tests			1	1
• OPP (Orthophenylphenol)	[mg/kg]	<10	<0.05	<0.05
• Pentachlorophenol (PCP)	[mg/kg]	<0.05	<0.01	<0.01
• 2,3,5,6-TeCP	[mg/kg]		<0.01	<0.01
• 2,3,4,6-TeCP	[mg/kg]		<0.01	<0.01
• 2,3,4,5-TeCP	[mg/kg]		<0.01	<0.01
• Tetrachlorophenols (TeCP, Sum)	[mg/kg]	<0.05	<0.01	<0.01
• 2,3,4-TrCP	[mg/kg]		<0.05	<0.05
• 2,3,5-TrCP	[mg/kg]		<0.05	<0.05
• 2,3,6-TrCP	[mg/kg]		<0.05	<0.05
• 2,4,5-TrCP	[mg/kg]		<0.05	<0.05
• 2,4,6-TrCP	[mg/kg]		<0.05	<0.05
• 3,4,5-TrCP	[mg/kg]		<0.05	<0.05
• Trichlorophenols (TrCP, Sum)	[mg/kg]	<0.20	<0.05	<0.05
• 2,4/2,5-DCP	[mg/kg]		<0.05	<0.05
• 2,6-DCP	[mg/kg]		<0.05	<0.05
• 2,3-DCP	[mg/kg]		<0.05	<0.05
• 3,4-DCP	[mg/kg]		<0.05	<0.05
• 3,5-DCP	[mg/kg]		<0.05	<0.05
• Dichlorophenols (DCP, Sum)	[mg/kg]	<0.50	<0.05	<0.05
• 2-MCP	[mg/kg]		<0.05	<0.05
• 3-MCP	[mg/kg]		<0.05	<0.05
• 4-MCP	[mg/kg]		<0.05	<0.05
• Monochlorophenols (MCP, Sum)	[mg/kg]	<0.50	<0.05	<0.05
• Phenol	[mg/kg]	<20	<5.0	<5.0

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#1 PES filament POY FP71727 raw white	#4 PES filament DTY FD2F3I31 dope-dyed in black	#5 PES filament HDI FR2100A0 raw white	#6 PES filament HDI FR1115K0 dope-dyed in black
Organic Tin Compounds						
OEKO-TEX® Method 7						
Number of Tests			1	1	1	1
• Trimethyltin (TMT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Dimethyltin (DMT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Monomethyltin (MMT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Tetraethyltin (TeET)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Dipropyltin (DPT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Monobutyltin (MBT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Tripropyltin (TPT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Dibutyltin (DBT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Monophenyltin (MPhT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Tributyltin (TBT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Monooctyltin (MOT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Tetrabutyltin (TeBT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Diphenyltin (DPhT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Dioctyltin (DOT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Tricyclohexyltin (TCT)	[mg/kg]	<0.50	<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]		<0.05	<0.05	<0.05	<0.05
• Trioctyltin (TOT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#9 PES filament DTY FD2F19M2 w/Flame. raw white	#11 PES FENC®-Celliant® filament DTY FD2F19H2 raw white	#13 PES FENC®-Phase change filament DTY FD2F1E2R raw white	#15 CDP filament POY FP62082 w/Flame. raw white
Organic Tin Compounds						
OEKO-TEX® Method 7						
Number of Tests			1	1	1	1
• Trimethyltin (TMT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Dimethyltin (DMT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Monomethyltin (MMT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Tetraethyltin (TeET)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Dipropyltin (DPT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Monobutyltin (MBT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Tripropyltin (TPT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Dibutyltin (DBT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Monophenyltin (MPhT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Tributyltin (TBT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Monooctyltin (MOT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Tetrabutyltin (TeBT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Diphenyltin (DPhT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Dioctyltin (DOT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05
• Tricyclohexyltin (TCT)	[mg/kg]	<0.50	<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]		<0.05	<0.05	<0.05	<0.05
• Trioctyltin (TOT)	[mg/kg]	<0.50	<0.05	<0.05	<0.05	<0.05

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#2 PES filament POY FP70487 dope-dyed in black	#4 PES filament DTY FD2F3I31 dope-dyed in black	#6 PES filament HDI FR1115K0 dope-dyed in black	#12 PES filament HDI FR1112G0 dope-dyed in green
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-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]		<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

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#2 PES filament POY FP70487 dope-dyed in black	#4 PES filament DTY FD2F3I31 dope-dyed in black	#6 PES filament HDI FR1115K0 dope-dyed in black	#12 PES filament HDI FR1112G0 dope-dyed in green
Disperse Dyes						
OEKO-TEX® Method 11.3/11.4						
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
• Solvent Yellow 34	[mg/kg]		<10	<10	<10	<10
• C.I. Disperse Orange 61	[mg/kg]		<10	<10	<10	<10

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#2 PES filament POY FP70487 dope-dyed in black	#4 PES filament DTY FD2F3I31 dope-dyed in black	#6 PES filament HDI FR1115K0 dope-dyed in black	#7 Recycled PES filament POY FP61732R raw white
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]		<0.01	<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]		<0.01	<0.01	<0.01	<0.01
• Sum	[mg/kg]	<1.0	<0.05	<0.05	<0.05	<0.05

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#8 Recycled PES filament DTY FP2F11K2 raw white	#12 PES filament HDI FR1112G0 dope-dyed in green	#14 Recycled PES filament FDY FF61907R raw white	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white
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]		0.34	0.34	<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]		<0.01	<0.01	<0.01	<0.01
• Sum	[mg/kg]	<1.0	0.34	0.34	<0.05	<0.05

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#1 PES filament POY FP71727 raw white	#4 PES filament DTY FD2F3I31 dope-dyed in black	#5 PES filament HDI FR2100A0 raw white	#7 Recycled PES filament POY FP61732R raw white
Polycyclic Aromatic Hydrocarbons (PAH)						
OEKO-TEX® Method 13						
Number of Tests			1	1	1	1
• Naphthalene	[mg/kg]	<2.0	<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

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#11 PES FENC®-Celliant® filament DTY FD2F19H2 raw white	#12 PES filament HDI FR1112G0 dope-dyed in green	#14 Recycled PES filament FDY FF61907R raw white	#15 CDP filament POY FP62082 w/Flame. raw white
Polycyclic Aromatic Hydrocarbons (PAH)						
OEKO-TEX® Method 13						
Number of Tests			1	1	1	1
• Naphthalene	[mg/kg]	<2.0	<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

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#1 PES filament POY FP71727 raw white	#4 PES filament DTY FD2F3I31 dope-dyed in black	#5 PES filament HDI FR2100A0 raw white	#7 Recycled PES filament POY FP61732R raw white
Solvent Residues						
OEKO-TEX® Method 14						
Number of Tests			1	1	1	1
• Benzene	[mg/kg]	<1.00	<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
• 2-(2-Aminoethylamino)ethanol	[mg/kg]		<1.0	<1.0	<1.0	<1.0

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#11 PES FENC®-Celliant® filament DTY FD2F19H2 raw white	#12 PES filament HDI FR1112G0 dope-dyed in green	#14 Recycled PES filament FDY FF61907R raw white	#15 CDP filament POY FP62082 w/Flame. raw white
Solvent Residues						
OEKO-TEX® Method 14						
Number of Tests			1	1	1	1
• Benzene	[mg/kg]	<1.00	<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
• 2-(2-Aminoethylamino)ethanol	[mg/kg]		<1.0	<1.0	<1.0	<1.0

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#3 PES filament DTY FD2G3J28 Q raw white	#6 PES filament HDI FR1115K0 dope-dyed in black	#8 Recycled PES filament DTY FP2F11K2 raw white	#10 CDP filament POY FP62111 raw white
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]	<5	<0.1	<0.1	<0.1	<0.1
• Octylphenolethoxylate (OPEO)	[mg/kg]		<1.0	<1.0	<1.0	<1.0
• Nonylphenolethoxylate (NPEO)	[mg/kg]		<1.0	<1.0	<1.0	<1.0
• Sum AP & APEO	[mg/kg]	<50	<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

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#12 PES filament HDI FR1112G0 dope-dyed in green	#13 PES FENC®-Phase change filament DTY FD2F1E2R raw white	#15 CDP filament POY FP62082 w/Flame. raw white	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white
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]	<5	<0.1	<0.1	<0.1	<0.1
• Octylphenolethoxylate (OPEO)	[mg/kg]		<1.0	<1.0	<1.0	<1.0
• Nonylphenolethoxylate (NPEO)	[mg/kg]		<1.0	<1.0	<1.0	<1.0
• Sum AP & APEO	[mg/kg]	<50	<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

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white
Flame Retardants OEKO-TEX® Method 17 Brominated Substances *			
Number of Tests			1
• HBCDD	[mg/kg]	<10.0	<0.10
• BDE-1 (monoBDE)	[mg/kg]	<10.0	<0.10
• BDE-7 (diBDE)	[mg/kg]	<10.0	<0.10
• BDE-28 (triBDE)	[mg/kg]	<10.0	<0.10
• BDE-47 (tetraBDE)	[mg/kg]	<10.0	<0.10
• BDE-99 (pentaBDE)	[mg/kg]	<10.0	<0.10
• BDE-154 (hexaBDE)	[mg/kg]	<10.0	<0.10
• BDE-183 (heptaBDE)	[mg/kg]	<10.0	<0.10
• BDE-203 (octaBDE)	[mg/kg]	<10.0	<0.10
• BDE-206 (nonaBDE)	[mg/kg]	<10.0	<0.10
• BDE-209 (decaBDE)	[mg/kg]	<10.0	<0.10
• PBB-1 (monoPBB)	[mg/kg]	<10.0	<0.10
• PBB-9 (diPBB)	[mg/kg]	<10.0	<0.10
• PBB-18 (triPBB)	[mg/kg]	<10.0	<0.10
• PBB-49 (tetraPBB)	[mg/kg]	<10.0	<0.10
• PBB-103 (pentaPBB)	[mg/kg]	<10.0	<0.10
• PBB-153 (hexaPBB)	[mg/kg]	<10.0	<0.10
• PBB-189 (heptaPBB)	[mg/kg]	<10.0	<0.10
• PBB-194 (octaPBB)	[mg/kg]	<10.0	<0.10
• PBB-206 (nonaPBB)	[mg/kg]	<10.0	<0.10
• PBB-209 (decaPBB)	[mg/kg]	<10.0	<0.10

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white
Flame Retardants OEKO-TEX® Method 17 Phosphorinated Substances *						
Number of Tests			1	1	1	1
• TRIS	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• TXP	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• TEPA	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• TCEP	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• BBMP	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• TDCPP	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• BIS	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• TBBPA	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• TOCP	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white
Flame Retardants OEKO-TEX® Method 17 Phosphorinated Substances *						
Number of Tests			1	1	1	1
• TRIS	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• TXP	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• TEPA	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• TCEP	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• BBMP	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• TDCPP	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• BIS	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• TBBPA	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• TOCP	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white
Flame Retardants OEKO-TEX® Method 17 Phosphorinated Substances * Number of Tests			1
• TRIS	[mg/kg]	<10.0	<0.10
• TXP	[mg/kg]	<10.0	<0.10
• TEPA	[mg/kg]	<10.0	<0.10
• TCEP	[mg/kg]	<10.0	<0.10
• BBMP	[mg/kg]	<10.0	<0.10
• TDCPP	[mg/kg]	<10.0	<0.10
• BIS	[mg/kg]	<10.0	<0.10
• TBBPA	[mg/kg]	<10.0	<0.10
• TOCP	[mg/kg]	<10.0	<0.10

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#1 PES filament POY FP71727 raw white	#4 PES filament DTY FD2F3I31 dope-dyed in black	#5 PES filament HDI FR2100A0 raw white	#7 Recycled PES filament POY FP61732R raw white
VOCs (Volatile Organic Compounds)						
OEKO-TEX® Method 19 *						
Number of Tests			2	2	2	2
• Dichloromethane	[mg/kg]	<1.0	0.25	0.26	0.29	<0.10
• Chloroform	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• Tetrachloromethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,1-Dichloroethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,2-Dichloroethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,1,1-Trichloroethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,1,2-Trichloroethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,1,1,2-Tetrachloroethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,1,2,2-Tetrachloroethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• Pentachloroethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,1-Dichloroethylene	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,2-Dichloroethylene	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• Trichloroethylene	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• Tetra(per)chloroethylene	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• Sum of Chlorinated solvents	[mg/kg]	<5.0	0.25	0.26	0.29	<0.10
• Methylethylketone	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Ethylbenzene	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Xylene (all isomers)	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Cyclohexanone	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• 2-Ethoxyethylacetate	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• 1,2,3-Trichloropropane	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Acetophenone	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• 2-Phenyl-2-propanole	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Bis(2-methoxyethyl)ether	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Styrene	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Benzene	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• Toluene	[mg/kg]	<10.0	<0.10	<0.10	0.36	<0.10
• 2-Ethoxyethanol	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Ethylene glycol dimethyl ether	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• 2-Methoxyethanol	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• 2-Methoxyethylacetate	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• 2-Methoxypropylacetate	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Triethylene glycol dimethyl ether	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• o-Cresol	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• m-Cresol	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• p-Cresol	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• 1-Methoxypropanol	[mg/kg]		<0.10	<0.10	<0.10	<0.10
• 1,2-Diethoxyethane	[mg/kg]		<0.10	<0.10	<0.10	<0.10

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#11 PES FENC®-Celliant® filament DTY FD2F19H2 raw white	#12 PES filament HDI FR1112G0 dope-dyed in green	#14 Recycled PES filament FDY FF61907R raw white	#15 CDP filament POY FP62082 w/Flame. raw white
VOCs (Volatile Organic Compounds)						
OEKO-TEX® Method 19 *						
Number of Tests			2	2	2	2
• Dichloromethane	[mg/kg]	<1.0	<0.10	0.32	0.70	0.53
• Chloroform	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• Tetrachloromethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,1-Dichloroethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,2-Dichloroethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,1,1-Trichloroethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,1,2-Trichloroethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,1,1,2-Tetrachloroethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,1,2,2-Tetrachloroethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• Pentachloroethane	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,1-Dichloroethylene	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• 1,2-Dichloroethylene	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• Trichloroethylene	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• Tetra(per)chloroethylene	[mg/kg]	<1.0	<0.10	<0.10	<0.10	<0.10
• Sum of Chlorinated solvents	[mg/kg]	<5.0	<0.10	0.32	0.7	0.53
• Methylethylketone	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Ethylbenzene	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Xylene (all isomers)	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Cyclohexanone	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• 2-Ethoxyethylacetate	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• 1,2,3-Trichloropropane	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Acetophenone	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• 2-Phenyl-2-propanole	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Bis(2-methoxyethyl)ether	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Styrene	[mg/kg]	<10.0	<0.10	<0.10	<0.10	0.13
• Benzene	[mg/kg]	<1.0	0.23	<0.10	0.16	0.59
• Toluene	[mg/kg]	<10.0	<0.10	<0.10	0.48	<0.10
• 2-Ethoxyethanol	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Ethylene glycol dimethyl ether	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• 2-Methoxyethanol	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• 2-Methoxyethylacetate	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• 2-Methoxypropylacetate	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• Triethylene glycol dimethyl ether	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• o-Cresol	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• m-Cresol	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• p-Cresol	[mg/kg]	<10.0	<0.10	<0.10	<0.10	<0.10
• 1-Methoxypropanol	[mg/kg]		<0.10	<0.10	<0.10	<0.10
• 1,2-Diethoxyethane	[mg/kg]		<0.10	<0.10	<0.10	<0.10

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#2 PES filament POY FP70487 dope-dyed in black	#4 PES filament DTY FD2F3I31 dope-dyed in black	#6 PES filament HDI FR1115K0 dope-dyed in black	#12 PES filament HDI FR1112G0 dope-dyed in green
Colour Fastness To Rubbing						
OEKO-TEX® Method 20-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

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#2 PES filament POY FP70487 dope-dyed in black	#4 PES filament DTY FD2F3I31 dope-dyed in black	#6 PES filament HDI FR1115K0 dope-dyed in black	#12 PES filament HDI FR1112G0 dope-dyed in green
Colour Fastness To Water						
OEKO-TEX® Method 20-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

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#2 PES filament POY FP70487 dope-dyed in black	#4 PES filament DTY FD2F3I31 dope-dyed in black	#6 PES filament HDI FR1115K0 dope-dyed in black	#12 PES filament HDI FR1112G0 dope-dyed in green
Colour Fastness To Perspiration						
OEKO-TEX® Method 20-B (EN ISO 105-E04)						
Number of Tests			1	1	1	1
• Change in colour (acid)	[grade]		4-5	4-5	4-5	4-5
• 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

		STANDARD 100 by OEKO-TEX® Product Class I Annex 6	#2 PES filament POY FP70487 dope-dyed in black	#4 PES filament DTY FD2F3I31 dope-dyed in black	#6 PES filament HDI FR1115K0 dope-dyed in black	#12 PES filament HDI FR1112G0 dope-dyed in green
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 100 by OEKO-TEX® Product Class I Annex 6	#15 CDP filament POY FP62082 w/Flame. raw white	#16 Recycled PES filament DTY FD2F19M3 w/Flame. raw white
Chlorinated Paraffins (CPs)				
OEKO-TEX® Method 8 *				
Number of Tests			1	1
• Sum of SCCP and MCCP	[mg/kg]	<50	<25	<25

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.

Issuing

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

Quality Management and Accreditation

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.

Copyright And Usage Notes

End of Report