

Test Report

Customer: ANKY A/S

Sundsvej 62
7400 Herning

Report No.: (25415)146-246576

Contact Person:

Denmark
Morten Dilling Bertelsen

Report Version: 1
Date of Reception: 27.04.2015

Report Date: 26.05.2015

Date of Order: 23.04.2015

Sampled By: client

Sample Information

Requirements: Tested according to "ordered" requirements

Sample Description: Prints

Performance Date: 30.04.2015 - 26.05.2015

No. of workdays: 10

Submitted Samples

Nr. 1



Nr. 2



Summary of Test Results
Tested according to "ordered" requirements

Tests required	Conclusion	Remark
Alkylphenols	Pass	
Azo dyes	Pass	
Chlorinated Paraffines	Pass	
Allergenic disperse dyes	Pass	
Formaldehyde	Pass	
Lead and Cadmium, total content	Pass	
PAH (Polycyclic aromatic hydrocarbons)	Pass	
pH value	Pass	
Phthalates	Pass	
Tinorganic compounds	Pass	

The results for ph-value and formaldehyhde for the white print and the results for chlorinated paraffins, formaldehyde, ph-value and tinorganic compouns for the grey print relates to additional sample material.

Tested Samples

Article No	Sample ID	Sample description
	246576-01	1) Print white
	246576-02	2) Print grey

Test Results

Tested according to "ordered" requirements

Sample Description:		1) Print white		Lab Reference No:	246576-01
Test Method / Standard:		Alkylphenols: BVCPs inhouse method, ultrasound extraction with Methanol (plastics THF/Methanol), determination using GC-MS, reporting limit: 3 mg/kg / 0.0003 %			
Test Location:		Parameter has been analyzed at BVCPs laboratory Schwerin.			
Parameter	Limit	Result	Rating		
Nonylphenols (NP)		<3 mg/kg	No Specification		
Octylphenols (OP)		<3 mg/kg	No Specification		
Sum of Alkylphenols	≤ 10 mg/kg	not detected	Pass		
Test Method / Standard:		Chlorinated Paraffines: Draft DIN EN ISO 18219 (modified), reporting limit: 0.01 %			
Test Location:		Parameter has been analyzed at BVCPs laboratory Schwerin.			
Parameter	Limit	Result	Rating		
Short chained chlorinated paraffines, C10-C13	≤ 0.1 %	<0.01 %	Pass		
Test Method / Standard:		Formaldehyde, free in textiles: § 64 LFGB B 82.02-1, Formaldehyde release in water, reporting limit: 5 mg/kg			
Test Location:		Parameter has been analyzed at BVCPs laboratory Schwerin.			
Parameter	Limit	Result	Rating		
Formaldehyde	≤ 16 mg/kg	6.5 mg/kg	Pass		
Test Method / Standard:		Determination of PAH: ZEK 01.4-08, reporting limit: 0.2 mg/kg			
Test Location:		Parameter has been analyzed at BVCPs laboratory Schwerin.			
Parameter	Limit	Result	Rating		
Benzo (a) pyrene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass		
Benzo (e) pyrene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass		
Benzo (a) anthracene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass		
Chrysene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass		
Benzo (b) fluoranthene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass		
Benzo (j) fluoranthene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass		
Benzo (k) fluoranthene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass		
Dibenzo (a,h) anthracene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass		
Naphthalene		<0.2 mg/kg	No Specification		
Acenaphthylene		<0.2 mg/kg	No Specification		
Acenaphthene		<0.2 mg/kg	No Specification		
Fluorene		<0.2 mg/kg	No Specification		
Phenanthrene		<0.2 mg/kg	No Specification		
Anthracene		<0.2 mg/kg	No Specification		
Fluoranthene		<0.2 mg/kg	No Specification		
Pyrene		<0.2 mg/kg	No Specification		
Indeno (1,2,3-cd) pyrene		<0.2 mg/kg	No Specification		
Benzo (g,h,i) perylene		<0.2 mg/kg	No Specification		
Cyclopenta (c,d) pyrene		<0.2 mg/kg	No Specification		
Dibenzo (a,e) pyrene		<0.2 mg/kg	No Specification		
Dibenzo (a, i) pyrene		<0.2 mg/kg	No Specification		
Dibenzo (a, l) pyrene		<0.2 mg/kg	No Specification		

Sample Description: 1) Print white		Lab Reference No: 246576-01	
Test Method / Standard: Determination of PAH: ZEK 01.4-08, reporting limit: 0.2 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
Dibenzo (a,h) pyrene		<0.2 mg/kg	No Specification
1-Methylpyrene		<0.2 mg/kg	No Specification
Sum	≤ 5 mg/kg	not detected	Pass
Test Method / Standard: ph value: DIN EN ISO 3071, variation B			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
pH value	4.0 - 7.5	5.9	Pass
Test Method / Standard: Phthalates: DIN EN ISO 14389 (modified), extraction with THF/ACN followed by GC-MS and/or LC-MS analysis, reporting limit: 50 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
Benzylbutylphthalate (BBP)	≤ 0.1 %	<0.005 %	Pass
Dibutylphthalate (DBP)	≤ 0.1 %	<0.005 %	Pass
Di(2-ethylhexyl)phthalate (DEHP)	≤ 0.1 %	<0.005 %	Pass
Bis(2-methoxyethyl) phthalate (DMEP)	≤ 0.1 %	<0.005 %	Pass
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	≤ 0.1 %	<0.005 %	Pass
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) -> determined as Diundecylphthalate	≤ 0.1 %	<0.005 %	Pass
Di-hexylphthalate, branched and linear (DHxP)	≤ 0.1 %	<0.005 %	Pass
Di-iso-butylphthalate (DIBP)	≤ 0.1 %	<0.005 %	Pass
Di-iso-decylphthalate (DIDP)	≤ 0.1 %	<0.005 %	Pass
Di-iso-hexylphthalate (DIHxP)	≤ 0.1 %	<0.005 %	Pass
Di-iso-nonylphthalate (DINP)	≤ 0.1 %	<0.005 %	Pass
Di-n-hexyl phthalate (DnHP)	≤ 0.1 %	<0.005 %	Pass
Di-n-octylphthalate (DNOP)	≤ 0.1 %	<0.005 %	Pass
Di-n-pentylphthalate (DnPP)	≤ 0.1 %	<0.005 %	Pass
Di-iso-pentylphthalate (DiPP)	≤ 0.1 %	<0.005 %	Pass
n-Pentyl-iso-pentylphthalate (PiPP)	≤ 0.1 %	<0.005 %	Pass
1,2-Benzenedicarboxylic acid, Di-C6-8-dipentylester, branched and linear	≤ 0.1 %	<0.005 %	Pass
Sum of listed Phthalates	≤ 0.1 %	not detected	Pass
Test Method / Standard: Tinorganic compounds: DIN EN ISO 17353 modified / DIN 38407-13 modified, reporting limit: 0.05 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
Dibutyltin (DBT)	≤ 1 mg/kg	<0.05 mg/kg	Pass
Dioctyltin (DOT)	≤ 1 mg/kg	<0.05 mg/kg	Pass
Tributyltin (TBT)	≤ 0.5 mg/kg	<0.05 mg/kg	Pass
Triphenyltin (TPHT)	≤ 0.5 mg/kg	<0.05 mg/kg	Pass
Test Method / Standard: Lead & Cadmium, total content: DIN EN 14602, reporting limit: 1 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
Cadmium (Cd)	≤ 50 mg/kg	<1 mg/kg	Pass
Lead (Pb)	≤ 90 mg/kg	<1 mg/kg	Pass

Sample Description: 2) Print grey		Lab Reference No: 246576-02	
Test Method / Standard: Azo dyes/Arylamines (other materials): EN 14362-1:2012, LFGB §64 B 82.02-2 & -4 (BVL B 82.02-2 & -4); reporting limit: 10 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
Azo dyes/Arylamines	≤ 20 mg/kg	not detected	Pass
Test Method / Standard: Alkylphenols: BVCPS inhouse method, ultrasound extraction with Methanol (plastics THF/Methanol), determination using GC-MS, reporting limit: 3 mg/kg / 0.0003 %			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
Nonylphenols (NP)		<3 mg/kg	No Specification
Octylphenols (OP)		<3 mg/kg	No Specification
Sum of Alkylphenols	≤ 10 mg/kg	not detected	Pass
Test Method / Standard: Chlorinated Paraffines: Draft DIN EN ISO 18219 (modified), reporting limit: 0.01 %			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
Short chained chlorinated paraffines, C10-C13	≤ 0.1 %	<0.01 %	Pass
Test Method / Standard: Formaldehyde, free in textiles: § 64 LFGB B 82.02-1, Formaldehyde release in water, reporting limit: 5 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
Formaldehyde	≤ 16 mg/kg	5.5 mg/kg	Pass
Test Method / Standard: Determination of PAH: ZEK 01.4-08, reporting limit: 0.2 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
Benzo (a) pyrene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Benzo (e) pyrene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Benzo (a) anthracene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Chrysene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Benzo (b) fluoranthene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Benzo (j) fluoranthene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Benzo (k) fluoranthene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Dibenzo (a,h) anthracene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Naphthalene		<0.2 mg/kg	No Specification
Acenaphthylene		<0.2 mg/kg	No Specification
Acenaphthene		<0.2 mg/kg	No Specification
Fluorene		<0.2 mg/kg	No Specification
Phenanthrene		<0.2 mg/kg	No Specification
Anthracene		<0.2 mg/kg	No Specification
Fluoranthene		<0.2 mg/kg	No Specification
Pyrene		<0.2 mg/kg	No Specification
Indeno (1,2,3-cd) pyrene		<0.2 mg/kg	No Specification
Benzo (g,h,i) perylene		<0.2 mg/kg	No Specification
Cyclopenta (c,d) pyrene		<0.2 mg/kg	No Specification
Dibenzo (a,e) pyrene		<0.2 mg/kg	No Specification
Dibenzo (a, i) pyrene		<0.2 mg/kg	No Specification
Dibenzo (a, l) pyrene		<0.2 mg/kg	No Specification
Dibenzo (a,h) pyrene		<0.2 mg/kg	No Specification
1-Methylpyrene		<0.2 mg/kg	No Specification
Sum	≤ 5 mg/kg	not detected	Pass

Sample Description: 2) Print grey		Lab Reference No: 246576-02	
Test Method / Standard: pH value: DIN EN ISO 3071, variation B			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
pH value	4.0 - 7.5	5.9	Pass
Test Method / Standard: Phthalates: DIN EN ISO 14389 (modified), extraction with THF/ACN followed by GC-MS and/or LC-MS analysis, reporting limit: 50 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
Benzylbutylphthalate (BBP)	≤ 0.1 %	<0.005 %	Pass
Dibutylphthalate (DBP)	≤ 0.1 %	<0.005 %	Pass
Di(2-ethylhexyl)phthalate (DEHP)	≤ 0.1 %	<0.005 %	Pass
Bis(2-methoxyethyl) phthalate (DMEP)	≤ 0.1 %	<0.005 %	Pass
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	≤ 0.1 %	<0.005 %	Pass
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) -> determined as Diundecylphthalate	≤ 0.1 %	<0.005 %	Pass
Di-hexylphthalate, branched and linear (DHxP)	≤ 0.1 %	<0.005 %	Pass
Di-iso-butylphthalate (DIBP)	≤ 0.1 %	<0.005 %	Pass
Di-iso-decylphthalate (DIDP)	≤ 0.1 %	<0.005 %	Pass
Di-iso-hexylphthalate (DIHxP)	≤ 0.1 %	<0.005 %	Pass
Di-iso-nonylphthalate (DINP)	≤ 0.1 %	<0.005 %	Pass
Di-n-hexyl phthalate (DnHP)	≤ 0.1 %	<0.005 %	Pass
Di-n-octylphthalate (DNOP)	≤ 0.1 %	<0.005 %	Pass
Di-n-pentylphthalate (DnPP)	≤ 0.1 %	<0.005 %	Pass
Di-iso-pentylphthalate (DiPP)	≤ 0.1 %	<0.005 %	Pass
n-Pentyl-iso-pentylphthalate (PiPP)	≤ 0.1 %	<0.005 %	Pass
1,2-Benzenedicarboxylic acid, Di-C6-8-dipentylester, branched and linear	≤ 0.1 %	<0.005 %	Pass
Sum of listed Phthalates	≤ 0.1 %	not detected	Pass
Test Method / Standard: Tinorganic compounds: DIN EN ISO 17353 modified / DIN 38407-13 modified, reporting limit: 0.05 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
Dibutyltin (DBT)	≤ 1 mg/kg	<0.05 mg/kg	Pass
Diocetyl tin (DOT)	≤ 1 mg/kg	<0.05 mg/kg	Pass
Tributyltin (TBT)	≤ 0.5 mg/kg	<0.05 mg/kg	Pass
Triphenyltin (TPhT)	≤ 0.5 mg/kg	<0.05 mg/kg	Pass
Test Method / Standard: Allergenic disperse dyes: DIN 54231, § 64 LFGB B 82.02-10, reporting limit: 15 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
Allergenic disperse dyes	≤ 50 mg/kg	not detected	Pass
Test Method / Standard: Lead & Cadmium, total content: DIN EN 14602, reporting limit: 1 mg/kg			
Test Location: Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating
Cadmium (Cd)	≤ 50 mg/kg	<1 mg/kg	Pass
Lead (Pb)	≤ 90 mg/kg	<1 mg/kg	Pass

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The testing of mixed samples is carried out at the customer's explicit request and may imply a deviation from the testing standard. Please note the following: results for mixed samples that are below the limit may exceed the limit if the samples contained in the mixed sample are tested individually. In these cases separate testing of the samples is recommended.

Performance Date: 30.04.2015 - 26.05.2015

Total Run Time: 10



Dr. Tim Lubinus
Analytical Testing Specialist

No results printed beyond this point in the report

Detailed Method Descriptions

Analysis / Test:	Azo dyes/Arylamines (other materials)
EN 14362-1:2012, LFGB §64 B 82.02-2 & -4 (BVL B 82.02-2 & -4), detection of the use of certain azo colorants in textiles accessible with or without extraction, reduction by dithionit, detection of certain amines by GC-MS and/or LC-DAD-MS, reporting limit: 10 mg/kg	
Analysis / Test:	Chlorinated Paraffines
Draft DIN EN ISO 18219 (modified), ultrasound extraction with n-Hexane, 60 min, 60°, GC-MS / NCI analysis, quantification: C10 - C13, 55.5% Cl content and C14 - C17, 52% Cl content, reporting limit: 0.01 %	
Analysis / Test:	Allergenic disperse dyes
DIN 54231, § 64 LFGB B 82.02-10, ultrasound extraction with Methanol, determination by LC-DAD-MS, reporting limit: 15 mg/kg	
Analysis / Test:	Formaldehyde, free in textiles
§ 64 LFGB B 82.02-1, Formaldehyde release in water, derivatisation with Acetylacetone, determination by photometry, reporting limit: 5 mg/kg	
Analysis / Test:	Lead & Cadmium, total content
DIN EN 14602, total metal content, microwave digestion with salpetric acid/hydrochloric acid, determination using ICP, reporting limit: 1 mg/kg	
Analysis / Test:	Determination of PAH
ZEK 01.4-08, ultrasound extraction with Toluene, determination with GC-MS (SIM), reporting limit: 0.2 mg/kg	
Analysis / Test:	Tinorganic compounds
DIN EN ISO 17353 modified / DIN 38407-13 modified, ultrasound extraction with Ethanol / Diethyldithiocarbamate, derivatisation with Tetraethylborate, determination using GC-MS, reporting limit: 0.05 mg/kg	



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Page 8 of 9

Parameters & CAS No.

Alkylphenols (CAS No.)	Disperse Blue 7 (3179-90-6)
Octylphenols (OP) (140-66-9)	Disperse Blue 26 (3860-63-7)
Nonylphenols (NP) (84852-15-3)	Disperse Yellow 49 (54824-37-2)
Azo dyes/Arylamines (other materials) (CAS No.)	Disperse Blue 124 (61951-51-7)
4,4'-Methylene-bis-(2-chloro-aniline) (101-14-4)	Disperse Yellow 23 (6250-22-3)
4,4'-Diaminodiphenylmethane (101-77-9)	Disperse Yellow 9 (6373-73-5)
4,4'-Oxydianiline (101-80-4)	Disperse Orange 3 (730-40-5)
4-Chloroaniline (106-47-8)	Disperse Orange 149 (85136-74-9)
3,3'-Dimethoxybenzidine (119-90-4)	Formaldehyde, free in textiles (CAS No.)
3,3'-Dimethylbenzidine (119-93-7)	Formaldehyde (50-00-0)
p-Cresidine (120-71-8)	Lead & Cadmium, total content (CAS No.)
2,4,5-Trimethylaniline (137-17-7)	Lead (Pb) (7439-92-1)
4,4'-Thiodianiline (139-65-1)	Cadmium (Cd) (7440-43-9)
2,4-Diaminoanisole (615-05-4)	Determination of PAH (CAS No.)
Aniline (62-53-3)	Anthracene (120-12-7)
3,3'-Dimethyl-4,4'-diaminodiphenylmethane (838-88-0)	Pyrene (129-00-0)
2,6-Xylidine (87-62-7)	Dibenzo (a, i) pyrene (189-55-9)
o-Anisidine (90-04-0)	Dibenzo (a,h) pyrene (189-64-0)
2-Naphtylamine (91-59-8)	Benzo (g,h,i) perylene (191-24-2)
3,3'-Dichlorobenzidine (91-94-1)	Dibenzo (a, l) pyrene (191-30-0)
4-Aminobiphenyl (92-67-1)	Dibenzo (a,e) pyrene (192-65-4)
Benzidine (92-87-5)	Benzo (e) pyrene (192-97-2)
o-Toluidine (95-53-4)	Indeno (1,2,3-cd) pyrene (193-39-5)
2,4-Xylidine (95-68-1)	Benzo (j) fluoranthene (205-82-3)
4-Chloro-o-toluidine (95-69-2)	Benzo (b) fluoranthene (205-99-2)
2,4-Toluenediamine (95-80-7)	Fluoranthene (206-44-0)
o-Aminoazotoluene (97-56-3)	Benzo (k) fluoranthene (207-08-9)
5-Nitro-o-toluidine (99-55-8)	Acenaphthylene (208-96-8)
1,4-Phenylenediamine (99-98-9)	Chrysene (218-01-9)
Chlorinated Paraffines (CAS No.)	1-Methylpyrene (2381-21-7)
Short chained chlorinated paraffines, C10-C13 (-)	Cyclopenta (c,d) pyrene (27208-37-3)
Allergenic disperse dyes (CAS No.)	Benzo (a) pyrene (50-32-8)
Disperse Yellow 1 (119-15-3)	Dibenzo (a,h) anthracene (53-70-3)
Disperse Blue 35 (12222-75-2)	Benzo (a) anthracene (56-55-3)
Disperse Blue 102 (12222-97-8/69766-79-6)	Acenaphthene (83-32-9)
Disperse Blue 106 (12223-01-7)	Phenanthrene (85-01-8)
Disperse Yellow 39 (12236-29-2)	Fluorene (86-73-7)
Disperse Orange 37 / 76 / 59 (13301-61-6)	Naphthalene (91-20-3)
Disperse Brown 1 (23355-64-8)	Phthalates (CAS No.)
Disperse Blue 1 (2475-45-8)	Di(2-ethylhexyl)phthalate (DEHP) (117-81-7)
Disperse Blue 3 (2475-46-9)	Bis(2-methoxyethyl) phthalate (DMEP) (117-82-8)
Disperse Orange 1 (2581-69-3)	Di-n-octylphthalate (DNOP) (117-84-0)
Disperse Yellow 3 (2832-40-8)	Di-n-pentylphthalate (DnPP) (131-18-0)
Disperse Red 11 (2872-48-2)	Di-iso-decylphthalate (DIDP) (26761-40-0)
Disperse Red 1 (2872-52-8)	Di-iso-nonylphthalate (DINP) (28553-12-0)
Disperse Red 17 (3179-89-3)	Di-iso-pentylphthalate (DiPP) (605-50-5)

1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNU) -> determined as Diundecylphthalate (68515-42-4, 3648-20-2)

Di-hexylphthalate, branched and linear (DHxP) (68515-50-4)

Di-iso-hexylphthalate (DIHxP) (71850-09-4)

1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (71888-89-6)

n-Pentyl-iso-pentylphthalate (PIPP) (776297-69-9)

Di-iso-butylphthalate (DIBP) (84-69-5)

Dibutylphthalate (DBP) (84-74-2)

Di-n-hexyl phthalate (DnHP) (84-75-3)

1,2-Benzenedicarboxylic acid, Di-C6-8-dipentylester, branched and linear (84777-06-0)

Benzylbutylphthalate (BBP) (85-68-7)

Tinorganic compounds

(CAS No.)

Dioctyltin (DOT) (-nonexistent-)

Dibutyltin (DBT) (14488-53-0)

Tributyltin (TBT) (36643-28-4)

Triphenyltin (TPHT) (668-34-8)