

Test Report

Customer: Comec Italia srl

Pzle Del Lavoro 149
21044 Cavaria (Va)

Contact Person:

Italy
Manuele Baggini

Report No.: (25414)045-184120

Report Version: 1
Date of Reception: 05.02.2014

Report Date: 14.02.2014

Date of Order: 30.01.2014
Sampled By: client

Sample Information

Requirements:

Tested according to "Nike" requirements

Sample Description:

Pad Printing Ink PLT TEX A
Pad printing ink used to print washing tags/labels on Apparels
Color Name: PLT TEX-A
Color Code: PLT TEX-A 65

Performance Date: 07.02.2014 - 14.02.2014

No. of workdays: 6

Overall Rating

The test results of the analyzed samples /
PASS /
the Nike RSL requirements. /

Submitted Samples

Nr. 1



Summary of test results

Tested according to "Nike" requirements

| Tests required | Conclusion | Remark |
|-----------------------------|------------|--------|
| Alkylphenoethoxylates | Pass | |
| Azo dyes | Pass | |
| Formaldehyde | Pass | |
| Heavy metals, total content | Pass | |
| Phthalates | Pass | |
| PVC test | Pass | |
| Tinorganic compounds | Pass | |

Tested Samples

| Article No | Sample ID | Sample description |
|------------|-----------|--------------------|
| | 184120-01 | 1) Ink black |

Test Results

Tested according to "Nike" requirements

| Sample Description: | | 1) Ink black | | Lab Reference No: | 184120-01 |
|---|-------------|--|------------------|-------------------|-----------|
| Test Method / Standard: | | Azo dyes/Arylamines (other materials): Modified EN 14362-1:2012, reporting limit: 10 mg/kg | | | |
| Test Location: | | Parameter has been analyzed at BVCPS laboratory Schwerin. | | | |
| Parameter | Limit | Result | Rating | | |
| 4-Aminobiphenyl | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| Benzidine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 4-Chloro-o-toluidine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 2-Naphtylamine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| o-Aminoazotoluene | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 5-Nitro-o-toluidine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 4-Chloroaniline | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 2,4-Diaminoanisole | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 4,4'-Diaminodiphenylmethane | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 3,3'-Dichlorobenzidine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 3,3'-Dimethoxybenzidine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 3,3'-Dimethylbenzidine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| p-Cresidine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 4,4'-Methylene-bis-(2-chloro-aniline) | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 4,4'-Oxydianiline | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 4,4'-Thiodianiline | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| o-Toluidine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 2,4-Toluediamine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 2,4,5-Trimethylaniline | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| o-Anisidine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| Aniline | | <10 | No Specification | | |
| 1,4-Phenylenediamine | | <10 | No Specification | | |
| 2,4-Xylidine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| 2,6-Xylidine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| p-Toluidine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| m-Toluidine | ≤ 20 mg/kg | <10 mg/kg | Pass | | |
| Azo dyes/Arylamines | ≤ 20 mg/kg | not detected | Pass | | |
| Test Method / Standard: | | Alkylphenoethoxylates: Methanol extraction, LC-MS or LC-DAD. Calibration with isomeric mixtures and reported as sum of isomers (n=4 to n=14) | | | |
| Test Location: | | Parameter has been analyzed at BVCPS laboratory Schwerin. | | | |
| Parameter | Limit | Result | Rating | | |
| Nonylphenoethoxylates, NPEO | | <10 mg/kg | No Specification | | |
| Octylphenoethoxylates, OPEO | | <10 mg/kg | No Specification | | |
| Sum of Alkylphenoethoxylates | ≤ 100 mg/kg | not detected | Pass | | |
| Test Method / Standard: | | Formaldehyde, free in textiles: ISO 14184-1, reporting limit: 5 mg/kg | | | |
| Test Location: | | Parameter has been analyzed at BVCPS laboratory Schwerin. | | | |
| Parameter | Limit | Result | Rating | | |
| Formaldehyde (toddler/infant/baby/<160mm) | ≤ 20 mg/kg | <5 mg/kg | Pass | | |
| Formaldehyde | ≤ 75 mg/kg | <5 mg/kg | Pass | | |

| | | | |
|---|-----------------|------------------------------------|------------------|
| Sample Description: 1) Ink black | | Lab Reference No: 184120-01 | |
| Test Method / Standard: 7 listed Phthalates: Nike In House Method: Determination of defined Orthophthalatic Esters in Synthetic Fibers and Thermoplastics by LC-DAD-MS or GC-MS, confirmation of failure by fragmentation HPLC-MS, reporting limit: 50 mg/kg | | | |
| Test Location: Parameter has been analyzed at BVCPs laboratory Schwerin. | | | |
| Parameter | Limit | Result | Rating |
| Di-iso-butylphthalate (DIBP) | | <50 mg/kg | No Specification |
| Dibutylphthalate (DBP) | | <50 mg/kg | No Specification |
| Benzylbutylphthalate (BBP) | | <50 mg/kg | No Specification |
| Di(2-ethylhexyl)phthalate (DEHP) | | <50 mg/kg | No Specification |
| Di-n-octylphthalate (DNOP) | | <50 mg/kg | No Specification |
| Di-iso-nonylphthalate (DINP) | | <50 mg/kg | No Specification |
| Di-iso-decylphthalate (DIDP) | | <50 mg/kg | No Specification |
| 7 listed Phthalates (adults) | ≤ 1000 mg/kg | not detected | Pass |
| 7 listed Phthalates (toddler/infant/baby/<160mm) | ≤ 500 mg/kg | not detected | Pass |
| Test Method / Standard: PVC test: Beilstein's test: Burning test for the presence of chlorine Infrared Analysis: Spectroscopy (IR) with or without solvent extraction (Positive results for both tests indicate PVC) | | | |
| Test Location: Parameter has been analyzed at BVCPs laboratory Schwerin. | | | |
| Parameter | Limit | Result | Rating |
| PVC test | no PVC detected | no PVC detected | Pass |
| Test Method / Standard: Tinorganic compounds: Nike inhouse method: Based on DIN 38407-13 and ISO 17353, detection limit: 0.1 mg/kg | | | |
| Test Location: Parameter has been analyzed at BVCPs laboratory Schwerin. | | | |
| Parameter | Limit | Result | Rating |
| Tributyltin (TBT) | | <0.1 mg/kg | No Specification |
| Triphenyltin (TPhT) | | <0.1 mg/kg | No Specification |
| Sum of TBT and TPhT | ≤ 0.5 mg/kg | <0.1 mg/kg | Pass |
| Dibutyltin (DBT) | | <0.1 mg/kg | No Specification |
| Dibutyltin (DBT) (toddler/infant/baby/<160mm) | ≤ 1.0 mg/kg | <0.1 mg/kg | Pass |
| Monobutyltin (MBT) | | <0.1 mg/kg | No Specification |
| Monooctyltin (MOT) | | <0.1 mg/kg | No Specification |
| Diocetyl tin (DOT) | | <0.1 mg/kg | No Specification |
| Tetrabutyltin (TeBT) | | <0.1 mg/kg | No Specification |
| Test Method / Standard: Heavy metals, total content: Nike In House Method: Total metal content by microwave digestion and ICP or AAS analysis, reporting limits: Cd 25 mg/kg, Pb 50 mg/kg, Hg 0.1 mg/kg, Cr (total) 3 mg/kg, Tin 0.1 mg/kg | | | |
| Test Location: Parameter has been analyzed at BVCPs laboratory Schwerin. | | | |
| Parameter | Limit | Result | Rating |
| Cadmium (Cd) | ≤ 50 mg/kg | <25 mg/kg | Pass |
| Chromium (Cr) | | <3 mg/kg | No Specification |
| Lead (Pb) | ≤ 90 mg/kg | <50 mg/kg | Pass |
| Mercury (Hg) | ≤ 1 mg/kg | <0.1 mg/kg | Pass |
| Tin (Sn) | | 19 mg/kg | No Specification |

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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: 07.02.2014 - 14.02.2014

Total Run Time: 6



 Julia-Verena Breuer
 Analytical Testing Specialist

No results printed beyond this point in the report

Detailed Method Descriptions

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|--|
| Analysis / Test: Heavy metals, total content |
| DIN EN 14602, total metal content, microwave digestion with salpetric acid/hydrochloric acid, determination using ICP, reporting limit: 1 mg/kg, except Mercury and Tin: 0.1 mg/kg |
| Analysis / Test: Tinorganic compounds |
| Nike inhouse method: Based on DIN 38407-13 and ISO 17353, Extraction & derivatization, followed by GC-MS analysis, detection limit: 0.1 mg/kg |

Parameters & CAS No.

| Alkylphenoethoxylates | (CAS No.) |
|--|------------------|
| Nonylphenoethoxylates, NPEO (9016-45-9) | |
| Octylphenoethoxylates, OPEO (9036-19-5) | |
| Azo dyes/Arylamines (other materials) | (CAS No.) |
| 4,4'-Methylene-bis-(2-chloro-aniline) (101-14-4) | |
| 4,4'-Diaminodiphenylmethane (101-77-9) | |
| 4,4'-Oxydianiline (101-80-4) | |
| 4-Chloroaniline (106-47-8) | |
| p-Toluidine (106-49-0) | |
| m-Toluidine (108-44-1) | |
| 3,3'-Dimethoxybenzidine (119-90-4) | |
| 3,3'-Dimethylbenzidine (119-93-7) | |
| p-Cresidine (120-71-8) | |
| 2,4,5-Trimethylaniline (137-17-7) | |
| 4,4'-Thiodianiline (139-65-1) | |
| 2,4-Diaminoanisole (615-05-4) | |
| Aniline (62-53-3) | |
| 3,3'-Dimethyl-4,4'-diaminodiphenylmethane (838-88-0) | |
| 2,6-Xylidine (87-62-7) | |
| o-Anisidine (90-04-0) | |
| 2-Naphtylamine (91-59-8) | |
| 3,3'-Dichlorobenzidine (91-94-1) | |
| 4-Aminobiphenyl (92-67-1) | |
| Benzidine (92-87-5) | |
| o-Toluidine (95-53-4) | |
| 2,4-Xylidine (95-68-1) | |
| 4-Chloro-o-toluidine (95-69-2) | |
| 2,4-Toluenediamine (95-80-7) | |
| o-Aminoazotoluene (97-56-3) | |
| 5-Nitro-o-toluidine (99-55-8) | |
| 1,4-Phenylenediamine (99-98-9) | |
| Formaldehyde, free in textiles | (CAS No.) |
| Formaldehyde (50-00-0) | |
| Heavy metals, total content | (CAS No.) |

| Lead (Pb) (7439-92-1) | |
|--|------------------|
| Mercury (Hg) (7439-97-6) | |
| Tin (Sn) (7440-31-5) | |
| Cadmium (Cd) (7440-43-9) | |
| Chromium (Cr) (7440-47-3) | |
| 7 listed Phthalates | (CAS No.) |
| Di(2-ethylhexyl)phthalate (DEHP) (117-81-7) | |
| Di-n-octylphthalate (DNOP) (117-84-0) | |
| Di-iso-decylphthalate (DIDP) (26761-40-0) | |
| Di-iso-nonylphthalate (DINP) (28553-12-0) | |
| Di-iso-butylphthalate (DIBP) (84-69-5) | |
| Dibutylphthalate (DBP) (84-74-2) | |
| Benzylbutylphthalate (BBP) (85-68-7) | |
| Tinorganic compounds | (CAS No.) |
| Dibutyltin (DBT) (toddler/infant/baby/<160mm) (14488-53-0) | |
| Tetrabutyltin (TeBT) (1461-25-2) | |
| Tributyltin (TBT) (36643-28-4) | |
| Triphenyltin (TPhT) (668-34-8) | |
| Monobutyltin (MBT) (78763-54-9) | |
| Diocetyl tin (DOT) (nonexistent) | |