

Test Report

Customer: Comec Italia srl

Pzle Del Lavoro 149
21044 Cavaria (Va)

Contact Person:

Italy
Manuele Baggini

Report No.: (25414)049-184118

Report Version: 1
Date of Reception: 05.02.2014

Report Date: 18.02.2014

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 60 HD white

Performance Date: 07.02.2014 - 18.02.2014

No. of workdays: 8

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	
Formaldehyde	Pass	
Heavy metals, total content	Pass	
Phthalates	Pass	
PVC test	Pass	
Tinorganic compounds	Pass	

Tested Samples

Article No	Sample ID	Sample description
	184118-01	1) Ink white

Test Results

Tested according to "Nike" requirements

Sample Description:		1) Ink white		Lab Reference No:	184118-01
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		
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	50 mg/kg	Pass		
7 listed Phthalates (toddler/infant/baby/<160mm)	≤ 500 mg/kg	50 mg/kg	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		

Sample Description:	1) Ink white	Lab Reference No:	184118-01
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)		0.11 mg/kg	No Specification

All services provided by Bureau Veritas Consumer Products Services Germany GmbH are subject to our current Terms and Conditions. The test result relates only to the tested item. Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced. Tests not covered by the laboratory's testing spectrum may be subcontracted to an accredited laboratory. The accreditation relates to competences stated on the accreditation certificate. If nothing else has been agreed on samples are stored for 3 months. All tested parameters are listed in the appendix.

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 - 18.02.2014

Total Run Time: 8



Julia-Verena Breuer
Analytical Testing Specialist

No results printed beyond this point in the report

Detailed Method Descriptions

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.)	Di-iso-nonylphthalate (DINP) (28553-12-0)
Nonylphenoethoxylates, NPEO (9016-45-9)	Di-iso-butylphthalate (DIBP) (84-69-5)
Octylphenoethoxylates, OPEO (9036-19-5)	Dibutylphthalate (DBP) (84-74-2)
	Benzylbutylphthalate (BBP) (85-68-7)
Formaldehyde, free in textiles (CAS No.)	Tinorganic compounds (CAS No.)
Formaldehyde (toddler/infant/baby/<160mm) (50-00-0)	Dibutyltin (DBT) (toddler/infant/baby/<160mm) (14488-53-0)
Heavy metals, total content (CAS No.)	Tetrabutyltin (TeBT) (1461-25-2)
Lead (Pb) (7439-92-1)	Tributyltin (TBT) (36643-28-4)
Mercury (Hg) (7439-97-6)	Triphenyltin (TPhT) (668-34-8)
Tin (Sn) (7440-31-5)	Monobutyltin (MBT) (78763-54-9)
Cadmium (Cd) (7440-43-9)	Diocetyl tin (DOT) (nonexistent)
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)	