

Test Report

Customer: Comec Italia srlPzle Del Lavoro 149
21044 Cavaria (Va)**Contact Person:**Italy
Manuele Baggini**Report No.:** (25414)045-184122**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 84
Color Code: 84-970**Performance Date:** 05.02.2014 - 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	
Formaldehyde	Pass	
Heavy metals, total content	Pass	
Phthalates	Pass	
PVC test	Pass	

Tested Samples

Article No	Sample ID	Sample description
	184122-01	1) Ink white

Test Results

Tested according to "Nike" requirements

Sample Description:		1) Ink white		Lab Reference No:	184122-01
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	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:		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)		<0.1 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: 05.02.2014 - 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

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	

Parameters & CAS No.

Alkylphenoethoxylates	(CAS No.)
Nonylphenoethoxylates, NPEO (9016-45-9)	
Octylphenoethoxylates, OPEO (9036-19-5)	
Formaldehyde, free in textiles	(CAS No.)
Formaldehyde (toddler/infant/baby/<160mm) (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)	