

## Test Report

**Customer:** Comec Italia srl

Pzle Del Lavoro 149  
21044 Cavaria ( Va )

**Contact Person:**

Italy  
Manuele Baggini

**Report No.:** (25414)045-184123

**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:**

HARDENER PLH-84 FOR PLT 84 INKS  
HARDENER TO INCREASE THE ADHESION OF PLT 84 INKS ON FABRICS  
Color Name: PLH-84  
Color Code: PLH-84 HARDENER

**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
	184123-01	1) Liquid transparent

## Test Results

Tested according to "Nike" requirements

Sample Description:		1) Liquid transparent		Lab Reference No:	184123-01
<b>Test Method / Standard:</b>		Alkylphenoethoxylates: Methanol extraction, LC-MS or LC-DAD. Calibration with isomeric mixtures and reported as sum of isomers (n=4 to n=14)			
<b>Test Location:</b>		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		
<b>Test Method / Standard:</b>		Formaldehyde, free in textiles: ISO 14184-1, reporting limit: 5 mg/kg			
<b>Test Location:</b>		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		
<b>Test Method / Standard:</b>		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			
<b>Test Location:</b>		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		
<b>Test Method / Standard:</b>		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)			
<b>Test Location:</b>		Parameter has been analyzed at BVCPS laboratory Schwerin.			
Parameter	Limit	Result	Rating		
PVC test	no PVC detected	no PVC detected	Pass		
<b>Test Method / Standard:</b>		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			
<b>Test Location:</b>		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

<b>Analysis / Test:</b>	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.

<b>Alkylphenoethoxylates</b>	<b>(CAS No.)</b>
Nonylphenoethoxylates, NPEO (9016-45-9)	
Octylphenoethoxylates, OPEO (9036-19-5)	
<b>Formaldehyde, free in textiles</b>	<b>(CAS No.)</b>
Formaldehyde (toddler/infant/baby/<160mm) (50-00-0)	
<b>Heavy metals, total content</b>	<b>(CAS No.)</b>
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)	
<b>7 listed Phthalates</b>	<b>(CAS No.)</b>
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)	