



## Test Report

Report No.: SFW20B00770    Report Issue Date: Nov 20, 2020    Page 1 of 10

YU HSING SCREEN & PAINT CO., LTD.  
NO.270, YUAN HUAN E RD., FENG YUAN DIST., TAIWAN, R.O.C.

The following sample(s) was/were submitted and identified by/on behalf of the client as :

### Report on the submitted sample said to be:

Sample Description	: PK-66 Ink
Division	: Accessories & Gear (A&G) Division
Buyer's Name	: Adidas
Summary of Test Result	: <b>Pass</b>
Failure Test Items	: ---
Age Group	: Adults / Infants
Material Name / Code	: PK-66 Ink
Color Name / Code	: Transparent
Material Component	: Ink
Lot No./Purchase/Order No.	: ---
Supplier Name	: Yu Hsing Screen & Paint Co., Ltd.
Supplier Contact Person	: ---
Country of Supplier	: Taiwan
Country of Destination	: ---
Sample Classification	: Inks, prints, repair colours (509) + Cement systems
Test Required Key Code No.	: Key code 509 and cement systems under Adidas A-01 Test Standard 2020
Report Type	: Full Test (FT)
Full Test Report No.	: ---
Additional Information	: ---
Sample Received Date	: Nov 16, 2020
Sample Tested Date	: Nov 16, 2020 To Nov 20, 2020
Sample Submitted by	: Yu Hsing Screen & Paint Co., Ltd.

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# Test Report

Report No.: SFW20B00770    Report Issue Date: Nov 20, 2020    Page 2 of 10

## Summary of Test Result: (Detail test results on next page)

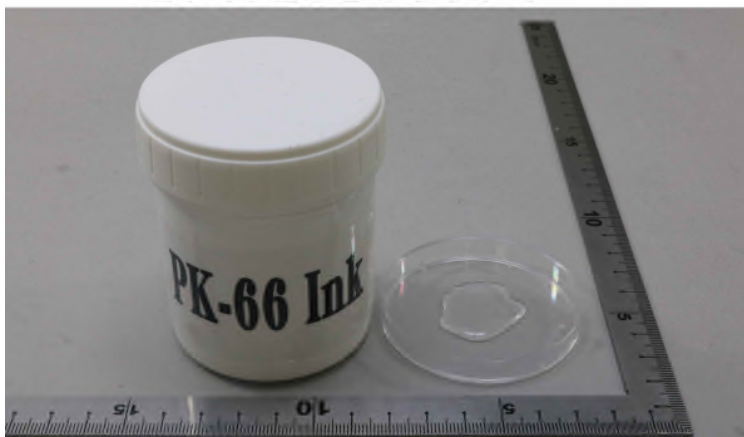
Test Parameter	Test Method	Conclusion (Pass/Fail)
Extractable Heavy Metals	Others: DIN EN 16711-2:2016 Analysis by ICP-MS - DIN EN ISO 11885: 2009 and DIN EN ISO 12846:2012	Pass
Total Cadmium	Other materials: DIN EN 16711-1:2016 Analysis by ICP-OES: DIN EN ISO 11885:2009	Pass
Total Lead	Others: DIN EN 16711-1:2016 Analysis by ICP-OES- DIN EN ISO 11885: 2009	Pass
Σ PCP, TeCP and TriCP	Non-leather: Extraction with KOH Analysis by GC-MS	Pass
o-Phenylphenol, OPP	Non-leather: Extraction with KOH Analysis by GC-MS	Pass
Formaldehyde	Non-leather: Adults: DIN EN ISO 14184-1:2011 Analysis by UV/VIS spectrophotometer Non-leather: Infants: JIS L1041:2011 (Method A) Analysis by UV/VIS spectrophotometer	Pass
Organotin Compounds	ISO/TS 16179:2012. Analysis by GC-MS.	Pass
Σ Phthalates	DIN EN ISO 14389:2014. Analysis by GC-MS.	Pass
Σ Short Chained Chloroparaffins (C10-C13)	Leather: DIN EN ISO 18219:2016. Analysis by GC-NCI-MS / GC-ECD	Pass
Σ Nonylphenol (NP), Octylphenol (OP), Nonylphenol ethoxylate (NPEO), Octylphenol ethoxylate (OPEO)	NP,OP: Polymer: Extraction with THF. NPEO,OPEO: Polymer: Extraction with THF. Analysis by LC-MS.	Pass
Nonylphenol (NP)	Polymer: Extraction with THF. Analysis by LC-MS.	Pass
Octylphenol (OP)	Polymer: Extraction with THF. Analysis by LC-MS.	Pass
Chemicals in Cement System	Solvent Extraction. Analysis by LC-MS / GC-MS	Pass

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## Test Report

Report No.: SFW20B00770 Report Issue Date: Nov 20, 2020 Page 3 of 10

### Sample Photo SFW20B00770



*Ray Chang*  
**Ray Chang Ph.D. / Manager - Tech**  
**Signed for and on behalf of**  
**SGS Taiwan Limited**  
**Chemical Laboratory-Kaohsiung**



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# Test Report

Report No.: SFW20B00770 Report Issue Date: Nov 20, 2020 Page 4 of 10

## Component List / List of Materials

Article No.	Material No.	Component	Material
A	1	Transparent Liquid	Ink

## Detail Test Results:

### Extractable Heavy Metals

Test Method: Others: With reference to DIN EN 16711-2:2016. Analysis was performed by ICP-MS.

	CAS-No.	Result
		1
Cadmium (Cd)	7440-43-9	n.d.
Chromium (Cr)	7440-47-3	n.d.
Lead (Pb)	7439-92-1	n.d.
Mercury (Hg)	7439-97-6	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected

Requirement:	Infants (ppm)	Adults (ppm)	Reporting Limit (ppm)
Cadmium	0.1	0.1	0.03
Chromium	1.0	2.0	0.3
Lead	0.2	1.0	0.06
Mercury	0.02	0.02	0.006

### Total Cadmium

Test Method: Others: With reference to DIN EN 16711-1:2016. Analysis was performed by ICP-OES.

	CAS No.	Result
		1
Cadmium (Cd)	7440-43-9	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
Reporting Limit = 5 ppm

**Requirement: 40 ppm**

# Test Report

Report No.: SFW20B00770 Report Issue Date: Nov 20, 2020 Page 5 of 10

## Total Lead

Test Method: Others: With reference to DIN EN 16711-1:2016. Analysis was performed by ICP-OES.

	CAS No.	Result
		1
Total Lead	7439-92-1	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
Reporting Limit = 5 ppm

**Requirement: 40 ppm**

## Σ PCP, TeCP and TriCP (for Infants)

Test Method: Textile: Extraction with KOH. Analysis was performed by GC-MS

	CAS No.	Result
		1
Pentachlorophenol (PCP)	87-86-5	n.d.
Tetrachlorophenols (TeCP)	--	n.d.
Trichlorophenols (TriCP)	--	n.d.
Sum of PCP, TeCP and TriCP	--	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
Reporting Limit = 0.015 ppm (for individual compound)

**Requirement: 0.05 ppm (Sum)**

## Σ PCP, TeCP and TriCP (for Adults)

Test Method: Textile: Extraction with KOH. Analysis was performed by GC-MS

	CAS No.	Result
		1
Pentachlorophenol (PCP)	87-86-5	n.d.
Tetrachlorophenols (TeCP)	--	n.d.
Trichlorophenols (TriCP)	--	n.d.
Sum of PCP, TeCP and TriCP	--	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
Reporting Limit = 0.05 ppm (for individual compound)

**Requirement: 0.5 ppm (Sum)**

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# Test Report

Report No.: SFW20B00770 Report Issue Date: Nov 20, 2020 Page 6 of 10

## o-Phenylphenol, OPP

Test Method: Textile: Extraction with KOH. Analysis was performed by GC-MS

	CAS No.	Result
		1
o-Phenylphenol (OPP)	--	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
Reporting Limit = 100 ppm

**Requirement: 1000 ppm**

## Formaldehyde (Non-Leather)

Test Method: Non-leather: Adults: With reference to DIN EN ISO 14184-1:2011. Analysis was performed by UV/VIS spectrophotometer.

	CAS No.	Result
		1
Formaldehyde	50-00-0	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
Reporting Limit = 16 ppm

**Requirement:**  
**Adults 75 ppm**

## Formaldehyde (Non-Leather)

Test Method: Non-leather: Infants: With reference to JIS L 1041A:2011. Analysis was performed by UV/VIS spectrophotometer.

	CAS No.	Result
		1
Formaldehyde	50-00-0	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
Reporting Limit = 5 ppm

**Requirement:**  
**Infants 16 ppm**

# Test Report

Report No.: SFW20B00770 Report Issue Date: Nov 20, 2020 Page 7 of 10

## Organotin Compounds

Test Method: With reference to ISO/TS 16179:2012. Analysis was performed by GC-MS.

	CAS-No.	Result
		1
Tributyltin (TBT)	--	n.d.
Triphenyltin (TPhT)	--	n.d.
Dibutyltin (DBT)	--	n.d.
Diocetyltn (DOT)	--	n.d.
Monobutyltin (MBT)	--	n.d.
Monooctyltin (MOT)	--	n.d.
Triocetyltn (TOT)	--	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
Reporting limit  
TBT = 0.015 ppm  
Others = 0.1 ppm (for individual compound)

### Requirement:

TBT	Not Detected (0.05 ppm)
TPhT	0.5 ppm
DBT	1 ppm
DOT	1 ppm
MBT	1 ppm
MOT	1 ppm
TOT	1 ppm

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# Test Report

Report No.: SFW20B00770 Report Issue Date: Nov 20, 2020 Page 8 of 10

## Phthalates

Test Method: With reference to DIN EN ISO 14389:2014. Analysis was performed by GC-MS.

	CAS No.	Result
		1
Diisononylphthalate (DINP)	28553-12-0	n.d.
Di-n-octylphthalate (DNOP)	117-84-0	n.d.
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	n.d.
Diisodecylphthalate (DIDP)	26761-40-0	n.d.
Butylbenzylphthalate (BBP)	85-68-7	n.d.
Dibutylphthalate (DBP)	84-74-2	n.d.
Diisobutylphthalate (DIBP)	84-69-5	n.d.
Di-C6-8-branched alkylphthalates (DIHP)	71888-89-6	n.d.
Di-C711-branched alkylphthalates (DHNUP)	68515-42-4	n.d.
Di-n-hexylphthalate (DHP)	84-75-3	n.d.
Di-(2-methoxyethyl)-phthalate (DMEP)	117-82-8	n.d.
Dipentylphthalate (DPP)	131-18-0	n.d.
Dicyclohexyl phthalate (DCHP)	84-61-7	n.d.
Diisopentylphthalate (DiPP)	605-50-5	n.d.
Diethyl phthalate (DEP)	84-66-2	n.d.
Di-iso-hexylphthalate (DIHxP)	71850-09-4	n.d.
Total	--	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Ratio of the mass of plasticized materials against the treated textile product	--	N/A
--	----	-----

Note: n.d. = not detected  
N/A = Not applicable

Reporting Limit = 50 ppm (for individual compound)

**Requirement: 500 ppm (Total)**

## Short Chain Chloroparaffins (C10-C13) (SCCPs)

Test Method: Leather: With reference to DIN EN ISO 18219:2016. Analysis was performed by GC-NCI-MS / GC-ECD.

	CAS No.	Result
		1
Short Chained Chloroparaffins	85535-84-8	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: n.d. = not detected  
Reporting Limit = 50 ppm

**Requirement: 1000 ppm**

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## Test Report

Report No.: SFW20B00770 Report Issue Date: Nov 20, 2020 Page 9 of 10

### Σ of NP, OP, NPEO and OPEO

Test Method: Extraction with THF. Analysis was performed by LC-MS.

	Result
	1
Nonylphenol (NP)	n.d.
Octylphenol (OP)	n.d.
Nonylphenol ethoxylates (NPEO)	n.d.
Octylphenol ethoxylates (OPEO)	n.d.
Sum of NP, OP, NPEO and OPEO	n.d.
<b>Conclusion</b>	<b>PASS</b>

Note: n.d. = not detected  
Reporting limit = 3 ppm (NP, OP); 5 ppm (NPEO, OPEO)

#### Requirement:

**Nonylphenol (NP)** 10 ppm  
**Octylphenol (OP)** 10 ppm  
**Sum of NP, OP, NPEO and OPEO** 100 ppm

### Chemicals in Cement System

Test Method: Solvent Extraction. Analysis was performed by LC-MS / GC-MS

	CAS-No.	Result
		1
Benzene	71-43-2	n.d.
Tetrachloroethane	79-34-5 / 630-20-6	n.d.
Toluene	108-88-3	23.6ppm
Xylene	1330-20-7	n.d.
Trichloroethylene	79-01-6	n.d.
Tetrachloroethylene	127-18-4	n.d.
Dichloromethane	75-09-2	n.d.
Methylphenol	1319-77-3	n.d.
Trichloromethane	67-66-3	n.d.
Cyclohexane	110-82-7	n.d.
Tetrahydrofuran (THF)	109-99-9	n.d.
Sum of NP, OP, NPEO and OPEO	--	n.d.
Dimethylformamide (DMFA)	68-12-2	n.d.
N,N-Dimethylacetamide (DMAC)	127-19-5	n.d.
1-Methyl-2-pyrrolidone (NMP)	872-50-4	n.d.
Monobutyltin (MBT)	--	n.d.
Dibutyltin (DBT)	--	n.d.
Triphenyltin (TPhT)	--	n.d.
Tributyltin (TBT)	--	n.d.
Trioctyltin (TOT)	--	n.d.
Monooctyltin (MOT)	--	n.d.
Diocetyl tin (DOT)	--	n.d.

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# Test Report

Report No.: SFW20B00770 Report Issue Date: Nov 20, 2020 Page 10 of 10

	CAS-No.	Result
		1
Cyclohexanone	108-94-1	74.5ppm
C3 and C4 alkylated benzenes	--	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: n.d. = not detected

Solvents	Requirement	Reporting Limit
Benzene	5 ppm	5 ppm
Tetrachloroethane	1000 ppm	5 ppm
Toluene	1000 ppm	5 ppm
Xylene	1000 ppm	5 ppm
Trichloroethylene	1000 ppm	5 ppm
Tetrachloroethylene	1000 ppm	5 ppm
Dichloromethane	1000 ppm	5 ppm
Methylphenol	1000 ppm	5 ppm
Cyclohexane	1000 ppm	5 ppm
Trichloromethane	1000 ppm	5 ppm
Tetrahydrofuran (THF)	1000 ppm	5 ppm
Σ of NP, OP, NPEO and OPEO	1000 ppm	50 ppm
Dimethylformamide (DMFA)	500 ppm	50 ppm
N,N-Dimethylacetamide (DMAC)	1000 ppm	50 ppm
1-Methyl-2-pyrrolidone (NMP)	1000 ppm	50 ppm
Monobutyltin (MBT)	1 ppm	0.1 ppm
Dibutyltin (DBT)	1 ppm	0.1 ppm
Triphenyltin (TPhT)	0.5 ppm	0.1 ppm
Tributyltin (TBT)	n.d.(0.05ppm)	0.015 ppm
Trioctyltin (TOT)	1 ppm	0.1 ppm
Monooctyltin (MOT)	1 ppm	0.1 ppm
Dioctyltin (DOT)	1 ppm	0.1 ppm
Cyclohexanone	1000 ppm	5 ppm
C3 and C4 alkylated benzenes	1000 ppm	50 ppm

\*\*\* End of Report \*\*\*

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