

TEST REPORT

APPLICANT :
ADDRESS :
SAMPLE DESCRIPTION : NOTE BOOK
ITEM NUMBER : P773.441, P773.442, P773.490, P773.492, P773.499,
P773.440
SAMPLE RECEIVED DATE : 08-May-2017
TURN AROUND TIME : 08-May-2017 to 11-May-2017

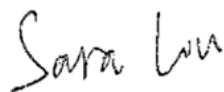
The following test item(s) was/were performed on selected sample(s) and/or component(s) appointed by applicant.

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Banned AZO Dyes	REACH Annex XVII, Entry 43	See Test Result
Polycyclic Aromatic Hydrocarbons (PAHs)	German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)	Pass
Phthalates Content	With reference to REACH Annex XVII, Entry 51 & 52	Pass
Total Lead Content	REACH Annex XVII, Entry 63	Pass

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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

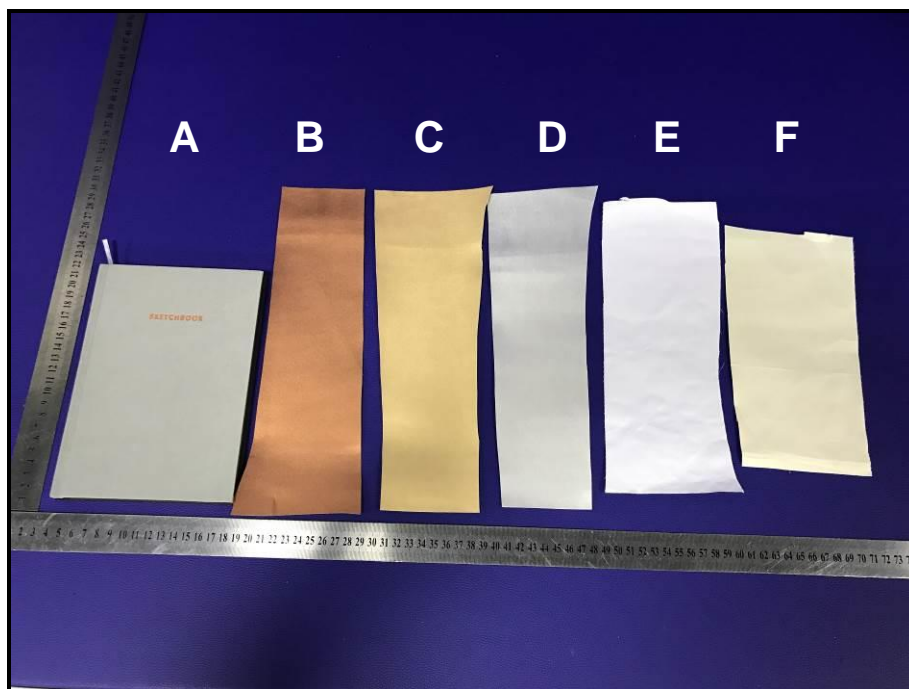
Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd Hangzhou Branch



Sara Liu
Quality Supervisor

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SAMPLE PHOTO



EFHZ17050383-CG-01

TO BE CONTINUED

COMPONENT LIST

Component No.	Component Name	Samples
1	Black fabric with rose golden coating	A
2	Rose golden artificial leather	B
3	Golden artificial leather	C
4	Silver artificial leather	D
5	White fabric	E
6	Light yellow fabric	F
7	Grey fabric	A
8	Grey fabric	A
9	Beige tape	A

TO BE CONTINUED

TEST RESULT

Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN 14362-1:2012
5-60 mg/kg quantitative, >60 mg/kg semi quantitative

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result			
					1	2+3+4	5+6	7+8+9
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND	ND	ND	ND
4,4'-Benzidine	92-87-5	mg/kg	30	5	ND	ND	ND	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND	ND	ND	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND	ND	ND	ND
o-Aminoazotoluene (Note 1)	97-56-3	mg/kg	30	5	ND	ND	ND	ND
5-Nitro-o-toluidine (Note 2)	99-55-8	mg/kg	30	5	ND	ND	ND	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND	ND	ND	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	30	5	ND	ND	ND	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND	42	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	30	5	ND	ND	ND	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	30	5	ND	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND	ND	ND	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	30	5	ND	ND	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND	ND	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND	ND	ND	ND
o-Tolidine	95-53-4	mg/kg	30	5	ND	ND	ND	ND
2,4-Diaminotoluene	95-80-7	mg/kg	30	5	ND	ND	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND	ND	ND	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND	ND	ND	ND
4-Amino-azobenzene (Note 3)	60-09-3	mg/kg	30	5	ND	ND	ND	ND

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

Note 1: o-Aminoazotoluene(CAS No.:97-56-3) is reduced to o-Toluidine(CAS No.:95-53-4) and quantified by this.

Note 2: 5-Nitro-o-toluidine(CAS No.:99-55-8) is reduced to 4-Methyl-m-phenylene Diamine (CAS No.:95-80-7) and quantified by this.

Note 3: 4-Amino-azobenzene(CAS No.:60-09-3) is reduced to aniline and 1,4-phenylenediamine. Need further confirmation when aniline and 1,4-phenylenediamine are detected.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) according to German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement

Requirement: AfPS GS 2014:01 PAK (PAK=PAHs)
Limits for PAHs can be found in table 1 on next page(s)

Parameter	CAS No.	Unit	Result		
			1	2+3	4
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	ND	ND
Chrysene	218-01-9	mg/kg	ND	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	ND	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND	ND
Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	ND	ND	ND
Naphthalene	91-20-3	mg/kg	ND	ND	ND
Sum 18 PAHs	-	mg/kg	ND	ND	ND
Conclusion:	For Category 2 (Other products under ProdSG)		Pass	Pass	Pass

Remark:

mg/kg = milligram per kilogram

ND = not detected, less than 0.2 mg/kg

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

TO BE CONTINUED

TEST RESULT

Table 1

Limits for PAHs according to AfPS GS 2014:01 PAK

Parameter	Unit	Category 1 Materials indented to be put in the mouth, or materials of toys intended long term skin contact (longer than 30 s)	Category 2 Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or repeated short-term skin contact		Category 3 Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 seconds (short term skin contact)	
		-	Toys under Directive 2009/48/EC	Other products under ProdSG	Toys under Directive 2009/48/EC	Other products under ProdSG
Benzo(a)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(e)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(a)anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(b)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(j)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(k)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo(a,h)anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(ghi)perylene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Indeno(1,2,3-cd)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	mg/kg	<1 Sum*	<5 Sum*	<10 Sum*	<20 Sum*	<50 Sum*
Naphthalene	mg/kg	<1	<2		<10	
Sum* 18 PAHs	mg/kg	<1	<5	<10	<20	<50

* = Only those PAH components are taken into account, which have been specified in the material over the 0.2 mg/kg.

TO BE CONTINUED

TEST RESULT

Phthalates Content

Test Request: Per client's request, phthalates content is tested with reference to Regulation (EU) 2015/326 amending entry 51&52 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3550C:2007, EPA 8270D:2007, solvent extraction and quantification by GC-MS.

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result	
					1	2+3+4
Dibutyl phthalate (DBP)	84-74-2	%	-	0.005	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	-	0.005	ND	ND
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	%	-	0.005	ND	ND
Sum (DBP + BBP + DEHP)	-	%	0.1	-	ND	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	-	0.005	ND	ND
Di-iso-nonyl phthalate (DINP)	28553-12-0	%	-	0.005	ND	ND
Di-iso-decyl phthalate (DIDP)	26761-40-0	%	-	0.005	ND	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND	ND

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

1 mg/kg = 1 ppm = 0.0001%

"-" = Not Regulated

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

Total Lead Content

Test Request: Total lead content as specified in entry 63 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 2015/628.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996
Acid digestion/ microwave digestion method was used and total lead content was determined by ICP-OES.

Tested Item(s)	Unit	Limit	MDL	Result	
				1	2+3+4
Total Lead	%	0.05	0.001	ND	ND

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

1 mg/kg = 1 ppm = 0.0001%

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

*** END OF THE REPORT ***