

TEST REPORT

APPLICANT : Xindao B.V.

ADDRESS : P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands

SAMPLE DESCRIPTION : Running holder with LED

ITEM NO. : P320.30

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION : Europe

SAMPLE RECEIVED DATE : 23-Apr-2015

TURN AROUND TIME : 23-Apr-2015 to 04-May-2015, 7 Working Days

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

TEST REQUESTED	RESULT
- Formaldehyde Content	See Test Result
- PAH Limit according to German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)	Pass
- Regulation (EU) 2015/326 amending entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 – PAHs Content	Pass
- Banned AZO Dyes	Pass

Eurofins (Shanghai) contact information

Customer service: EmilyDeng@eurofins.com / 021-61819259

Sales specialist: WandyShen@eurofins.com / 18616155723

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



Terric Ji
Lab Manager

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SAMPLE PHOTO



EFSH15041591-CG-02

TO BE CONTINUED

COMPONENT LIST

Component No.	Component
1	Black plastic "O" ring
2	Transparent film
3	Yellow plastic film
4	Black felt
5	Black fabric
6	Grey PU
7	Black velcro

TO BE CONTINUED

TEST RESULT

Formaldehyde Content

Test Method: ISO 14184-1

Tested Item(s)	Test Result (mg/kg)	M.D.L. (mg/kg)
	5	
Formaldehyde	ND	16

Note:

M.D.L. = method detection limit

ND = not detected, less than M.D.L.

mg/kg = milligram per kilogram

TO BE CONTINUED

TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

- Test specification : 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) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG, see table 1 on next page(s):

Parameter	CAS No.	Unit	Result	
			1	2+3
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	ND
Chrysene	218-01-9	mg/kg	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND
Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	ND	ND
Naphthalene	91-20-3	mg/kg	ND	0.821
Sum 18 PAHs	-	mg/kg	ND	0.821
Summary to above mentioned requirement:	For Category 2 (Other products under ProdSG)		Pass	Pass

Note:

mg/kg = milligram per kilogram

ND = not detected, less than 0.2 mg/kg

Remark:

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

AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG.

Parameter	Unit	Category 1 Materials indented to be put in the mouth, or materials of toys for children with foreseeable skin contact for longer than 30 seconds (long-term skin contact)	Category 2 Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or short-term repetitive contact with the human skin		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

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Requested : Polycyclic Aromatic Hydrocarbons (PAHs) content as specified in Regulation (EU) 2015/326 amending entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method : Solvent extraction and determination by Gas Chromatography Mass Spectrometry (GC-MS).

Test Item(s)	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	1	2+3		
Benzo(a)anthracene	ND	ND	0.2	1
Chrysene	ND	ND	0.2	1
Benzo(b)fluoranthene	ND	ND	0.2	1
Benzo(j)fluoranthene				
Benzo(k)fluoranthene	ND	ND	0.2	1
Benzo(a)pyrene	ND	ND	0.2	1
Dibenzo(a,h)anthracene	ND	ND	0.2	1
Benzo(e)pyrene	ND	ND	0.2	1

Note :

mg/kg = milligram per kilogram

MDL = method detection limit

ND = not detected (<MDL)

Remark:

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

TO BE CONTINUED

TEST RESULT

Banned AZO Dyes

Test specification : Banned AZO-dyes (REACH Regulation (EC) No 1907/2006 (Annex XVII, No. 43), previously restricted under Directive 2002/61/EC)

Test method : EN 14362-1:2012
10-60 mg/kg quantitative, >60 mg/kg semi quantitative
Determination by Gas Chromatography-Mass Selective Detection (GC-MSD) and Confirmation by High Performance Liquid Chromatographic Analysis (HPLC/DAD)

Requirement : 30 mg/kg for single material

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

Remark:

ND = not detected, less than 10 mg/kg (max.)

mg/kg = milligram per kilogram

Note 1 : o-Aminoazotoluene(CAS No.:97-56-3) is been 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 been 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 detected as aniline. Need further confirmation when aniline is detected.

TO BE CONTINUED

TEST RESULT

Banned AZO Dyes

Test specification : Banned AZO-dyes (REACH Regulation (EC) No 1907/2006 (Annex XVII, No. 43), previously restricted under Directive 2002/61/EC)

Test method : EN 14362-1:2012 and EN 14362-3:2012
10-60 mg/kg quantitative, >60 mg/kg semi quantitative
Determination by Gas Chromatography-Mass Selective Detection (GC-MSD) and Confirmation by High Performance Liquid Chromatographic Analysis (HPLC/DAD)

Requirement : 30 mg/kg for single material

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

Remark:

ND = not detected, less than 10 mg/kg (max.)

mg/kg = milligram per kilogram

Note 1 : o-Aminoazotoluene(CAS No.:97-56-3) is been 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 been 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 detected as aniline. Need further confirmation when aniline is detected.

*** END OF THE REPORT ***