

# TEST REPORT

**APPLICANT** : Xindao B.V.

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

**SAMPLE DESCRIPTION** : Dobble 2 way charger

**ITEM NO.** : P324.30

**COUNTRY OF ORIGIN** : China

**COUNTRY OF DESTINATION** : Europe

**SAMPLE RECEIVED DATE** : 08-Jul-2015

**TURN AROUND TIME** : 08-Jul-2015 to 14-Jul-2015, 5 Working Days

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
Polycyclic Aromatic Hydrocarbons (PAHs)	German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)	REACH Annex XVII, Entry 50	Pass
Banned AZO Dyes	REACH Annex XVII, Entry 43	Pass

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

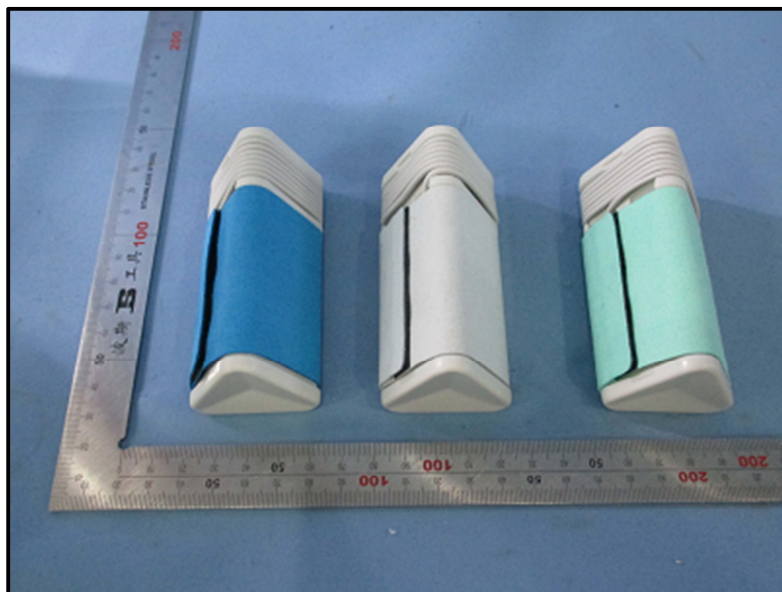
Signed for and on behalf of  
Eurofins Product Testing Service (Shanghai) Co., Ltd



Terric Ji  
Lab Manager

*Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to [sh.info@eurofins.com](mailto:sh.info@eurofins.com) and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd.*

**SAMPLE PHOTO**



**EFSH15070055-CG-01**

\*\*\*TO BE CONTINUED\*\*\*

**COMPONENT LIST**

Component No.	Component
1	grey plastic shell
2	grey soft plastic wire
3	blue fabric
4	green fabric
5	grey fabric

\*\*\*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) 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
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	1.34
Sum 18 PAHs	-	mg/kg	ND	1.34
Summary to above mentioned requirement:	For Category 2 (Other products under ProdSG)		Pass	Pass

**Remark:**

mg/kg = milligram per kilogram

ND = not detected, less than 0.2 mg/kg

\*\*\*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 Request: 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 quantification by gas chromatography-mass selective detection (GC-MS)

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result	
					1	2
For rubber or plastic will direct contact with skin and mouth.						
Benzo(a)anthracene	56-55-3	mg/kg	1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	1	0.2	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	1	0.2	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	1	0.2	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	1	0.2	ND	ND
Benzo(a)pyrene	50-32-8	mg/kg	1	0.2	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	1	0.2	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	1	0.2	ND	ND

**Remark:**

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*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  
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).

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result
					3+4+5
4-Aminobiphenyl	92-67-1	mg/kg	30	10	ND
4,4'-Benzidine	92-87-5	mg/kg	30	10	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	10	ND
2-Naphthylamine	91-59-8	mg/kg	30	10	ND
o-Aminoazotoluene (Note 1)	97-56-3	mg/kg	30	10	ND
5-Nitro-o-toluidine (Note 2)	99-55-8	mg/kg	30	10	ND
4-Chloroaniline	106-47-8	mg/kg	30	10	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	30	10	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	10	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	10	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	10	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	30	10	ND
3,3'-Dimethyl-4,4'-diaminadiphenylmethane	838-88-0	mg/kg	30	10	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	10	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	30	10	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	10	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	10	ND
o-Tolidine	95-53-4	mg/kg	30	10	ND
2,4-Diaminotoluene	95-80-7	mg/kg	30	10	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	10	ND
o-Anisidine	90-04-0	mg/kg	30	10	ND
4-Amino-azobenzene (Note 3)	60-09-3	mg/kg	30	10	ND

#### Remark:

MDL = method detection limit

ND = Not detected, less than MDL

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.

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

\*\*\*END OF THE REPORT\*\*\*