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## **TEST REPORT**

**APPLICANT** : Xindao B.V.

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

**SAMPLE DESCRIPTION** : RFID card proposal

**ITEM NO.** : P820.32

**COUNTRY OF ORIGIN** : China

**COUNTRY OF DESTINATION** : Europe

**SAMPLE RECEIVED DATE** : 18-Apr-2016

TURN AROUND TIME : 18-Apr-2016 to 21-Apr-2016, 4 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	
Total Cadmium Content	REACH Annex XVII, Entry 23	Pass	

Eurofins (Shanghai) contact information

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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 <a href="mailto:sh.info@eurofins.com">sh.info@eurofins.com</a> 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.



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# **SAMPLE PHOTO**



EFSH16041307-CG-01



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# **COMPONENT LIST**

Component No.	Component			
1	Green plastic			
2	Grey plastic			
3	Blue plastic			
4	White plastic			
5	Orange plastic			
6	Black plastic			
7	Red plastic			



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## **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.	I I mi4	Result		
		Unit	6		
Benzo(a)pyrene	50-32-8	mg/kg	ND		
Benzo(e)pyrene	192-97-2	mg/kg	ND		
Benzo(a)anthracene	56-55-3	mg/kg	ND		
Benzo(b)fluoranthene	205-99-2	mg/kg	ND		
Benzo(j)fluoranthene	205-82-3	mg/kg	ND		
Benzo(k)fluoranthene	207-08-9	mg/kg	ND		
Chrysene	218-01-9	mg/kg	ND		
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND		
Benzo(ghi)perylene	191-24-2	mg/kg	0.207		
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND		
Sum of Acenaphthene,					
Acenaphthylene, Fluorene,	-	mg/kg	1.04		
Phenanthrene, Pyrene,		0 0			
Anthracene, Fluoranthene					
Naphthalene	91-20-3	mg/kg	0.573		
Sum 18 PAHs	-	mg/kg	1.82		
Summary to above	For Category 2				
mentioned requirement:	(Other products under ProdSG)		Pass		

#### Remark:

mg/kg = milligram per kilogram

ND = not detected, less than 0.2 mg/kg

As per client's request, only the appointed materials have been tested.



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## **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 Materials not category 1, we foreseeable states for longer that seconds (long contact) or strepetitive contact the human sketters.	covered by with skin contact in 30 g-term skin nort-term stact with kin	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

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



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# **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)

with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result 6		
For rubber or plastic will direct contact with skin and mouth.							
Benzo(a)anthracene	56-55-3	mg/kg	1	0.2	ND		
Chrysene	218-01-9	mg/kg	1	0.2	ND		
Benzo(b)fluoranthene	205-99-2	mg/kg	1	0.2	ND		
Benzo(j)fluoranthene	205-82-3	mg/kg	1	0.2	ND		
Benzo(k)fluoranthene	207-08-9	mg/kg	1	0.2	ND		
Benzo(a)pyrene	50-32-8	mg/kg	1	0.2	ND		
Dibenzo(a,h)anthracene	53-70-3	mg/kg	1	0.2	ND		
Benzo(e)pyrene	192-97-2	mg/kg	1	0.2	ND		

#### Remark:

mg/kg = milligram per kilogram MDL = method detection limit ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.



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## **TEST RESULT**

### **Total Cadmium Content**

Test Reguest: Total cadmium content as specified in Commission Regulation (EU) 2016/217 amending entry

23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN 1122:2001 Method B, acid digestion method was used and total cadmium content was

determined by ICP-OES.

Tested Item(s)	Tested Item(s) Unit		MDL	Result		
rested item(s)	Ullit	Limit	MIDL	1+2+3	4+5	6+7
Total Cadmium	%	0.01	0.0005	ND	ND	ND

#### Remark:

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

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

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