

TEST REPORT

APPLICANT : Xindao B.V.

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

SAMPLE DESCRIPTION : Arata 15" laptop backpack

ITEM NO. : P762.17

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION : Europe

SAMPLE RECEIVED DATE : 05-Jun-2017

TURN AROUND TIME : 05-Jun-2017 to 15-Jun-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	Pass
Total Lead Content	REACH Annex XVII, Entry 63	Pass
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

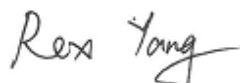
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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

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



Rex Yang
Assistant Chemical Lab Manager

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SAMPLE PHOTO



EFSH17052255-CG-01

TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Quote From
1	Black coating on metal	-
2	Black soft plastic wire (USB)	EFSH16110874-CG-01
3	Black soft plastic (shoulder tape)	-
4	Black plastic (USB box)	EFSH16110874-CG-01
5	Black plastic zipper teeth	-
6	White plastic (USB's tongue)	-
7	Black plastic buckle	EFSH16110874-CG-01
8	Black fabric with elastic (shoulder tape)	-
9	Grey fabric body	-
10	Navy fabric body	-
11	Black fabric (handle)	-
12	Green fabric (lining)	-
13	Black mesh fabric (back)	-
14	Black fabric (shoulder tape)	-

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				
					8	9	11	12	14
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND	ND	ND	ND	ND
4,4'-Benzidine	92-87-5	mg/kg	30	5	ND	ND	ND	ND	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND	ND	ND	ND	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND	ND	ND	ND	ND
o-Aminoazotoluene (Note 1)	97-56-3	mg/kg	30	5	ND	ND	ND	ND	ND
5-Nitro-o-toluidine (Note 2)	99-55-8	mg/kg	30	5	ND	ND	ND	ND	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND	ND	ND	ND	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	30	5	ND	ND	ND	ND	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND	ND	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND	ND	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	30	5	ND	ND	ND	ND	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	30	5	ND	ND	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND	ND	ND	ND	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	30	5	ND	ND	ND	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND	ND	ND	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND	ND	ND	ND	ND
o-Tolidine	95-53-4	mg/kg	30	5	ND	ND	ND	ND	ND
2,4-Diaminotoluene	95-80-7	mg/kg	30	5	ND	ND	ND	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND	ND	ND	ND	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND	ND	ND	ND	ND
4-Amino-azobenzene (Note 3)	60-09-3	mg/kg	30	5	ND	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.

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

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, EN 14362-3:2012
5-60 mg/kg quantitative, >60 mg/kg semi quantitative

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result	
					10	13
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND	ND
4,4'-Benzidine	92-87-5	mg/kg	30	5	ND	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND	ND
o-Aminoazotoluene (Note 1)	97-56-3	mg/kg	30	5	ND	ND
5-Nitro-o-toluidine (Note 2)	99-55-8	mg/kg	30	5	ND	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	30	5	ND	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	30	5	ND	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	30	5	ND	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	30	5	ND	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND	ND
o-Tolidine	95-53-4	mg/kg	30	5	ND	ND
2,4-Diaminotoluene	95-80-7	mg/kg	30	5	ND	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND	ND
4-Amino-azobenzene (Note 3)	60-09-3	mg/kg	30	5	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.

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

TO BE CONTINUED

TEST RESULT

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(Pb)	%	0.05	0.001	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result			
				5	6	7	8
Total Lead(Pb)	%	0.05	0.001	ND	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.

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					
			2	3	4	5	7	8
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND	ND	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND	ND	ND	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND	ND	ND	ND	ND
Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	0.322	ND	0.379	ND	ND	0.555
Naphthalene	91-20-3	mg/kg	0.290	0.297	0.360	ND	ND	ND
Sum 18 PAHs	-	mg/kg	0.612	0.297	0.739	ND	ND	0.555
Conclusion:	For Category 2 (Other products under ProdSG)		Pass	Pass	Pass	Pass	Pass	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.

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 intended long term skin contact (longer than 30s)	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

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					
					2	3	4	5	7	8
For rubber or plastic will direct contact with skin and mouth.										
Benzo(a)anthracene	56-55-3	mg/kg	1	0.2	ND	ND	ND	ND	ND	ND
Chrysene	218-01-9	mg/kg	1	0.2	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	1	0.2	ND	ND	ND	ND	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	1	0.2	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	1	0.2	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	50-32-8	mg/kg	1	0.2	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	1	0.2	ND	ND	ND	ND	ND	ND
Benzo(e)pvrene	192-97-2	mg/kg	1	0.2	ND	ND	ND	ND	ND	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.

END OF THE REPORT