



TEST REPORT

Reference No. : SZ2017080333-1E

Date : Aug. 15, 2017

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Client : Paul Stricker SA
Address : N.I. Murtede, It5 – 3060-372 Murtede - Portugal

The following merchandise was (were) submitted and identified by the client as:


Name of Product : Neck Pillow
Test Model : 98180, 98197
Model May Cover : /
Main Material: PVC with velvet surface
Sample Received : Aug. 10, 2017
Test Period : Aug. 10, 2017 - Aug. 15, 2017
Test Specification and Conclusion:

As requested by the client, to do the following test items:

Requirement:	Conclusion:
1. AZO contents according to REACH Annex XVII (entry 43)	PASS
2. Phthalate content according to REACH Annex XVII (entry 51&52)	PASS
3. Lead (Pb) content according to REACH Annex XVII (entry 63)	PASS
4. Cadmium (Cd) content according to REACH Annex XVII (entry 23)	PASS
5. Organotin (TBT, DBT, TPhT, DOT) content according to REACH Annex XVII (entry 20)	PASS
6. Polycyclic Aromatic Hydrocarbons (PAHs) contents according to AfPS GS 2014:01 PAK	PASS

Prepared By : 

Ada. Wang
Testing Engineer

Reviewed By : 

Cookie. Chen
Project Supervisor

Issued By : 

Kevin. Chen
Lab Manager

STQ Testing Services Co., Ltd.

Add.:3F,B3,218 Xinghu St., Suzhou Industrial Park,China,215123

Tel.:+86/(0)512 87661878

Fax: +86/(0)512 87661802

Web:www.stq-cert.com

Technical service: TS@stq-cert.com

Customer service: CS@stq-cert.com

TEST RESULTS:

1. AZO Contents

Test Method: With reference to EN ISO 14362-1:2017, Analysis was performed by GC-MS.

Test Items		MDL (mg/kg)	Test Results (mg/kg)	Limited Value*
CAS NO.	prohibitive aromatic amines		1#^	(mg/kg)
92-67-1	4-Aminobiphenyl	5	N.D.	30
92-87-5	Benzidine	5	N.D.	30
95-69-2	4-Chloro-o-toluidine	5	N.D.	30
91-59-8	2-Naphthylamine	5	N.D.	30
97-56-3	O-Aminoazotoluene	5	N.D.	30
99-55-8	5-nitro-o-toluidine	5	N.D.	30
106-47-8	4-Chloroaniline	5	N.D.	30
615-05-4	4-methoxy-m-phenylenediamine	5	N.D.	30
101-77-9	4,4'-methylenedianiline	5	N.D.	30
91-94-1	3,3'-Dichlorobenzidine	5	N.D.	30
119-90-4	3,3'-Dimethoxybenzidine	5	N.D.	30
119-93-7	3,3'-Dimethylbenzidine	5	N.D.	30
838-88-0	4,4'-methylenedi-o-toluidine	5	N.D.	30
120-71-8	P-Cresidine	5	N.D.	30
101-14-4	4,4'-Methylene-bis-(2-Chloro-aniline)	5	N.D.	30
101-80-4	4,4'-oxydianiline	5	N.D.	30
139-65-1	4,4'-Thiodianiline	5	N.D.	30
95-53-4	O-Toluidine	5	N.D.	30
95-80-7	4-methyl-m-phenylenediamine	5	N.D.	30
137-17-7	2,4,5-Trimethylaniline	5	N.D.	30
60-09-03	4-Aminoazobenzene	5	N.D.	30
90-04-0	O-Anisidine	5	N.D.	30

Remark: * The Limited value is based on REACH Annex XVII (entry 43).

***** To be continued *****

2. Phthalates Content

Test Method: With reference to EPA3550C-2007&EPA8270D-2007, Analysis was performed by GC-MS.

(2-1) For all toys and childcare articles

Test Item(s)	Unit	MDL	Test Results		Limited Value**
			1# [▲]	2#	
Dibutyl Phthalate((DBP)	%	0.005	N.D.	N.D.	---
Benzylbutyl Phthalate(BBP)		0.005	N.D.	N.D.	---
Di-(2-ethylhexyl)Phthalate(DEHP)		0.005	N.D.	N.D.	---
Total (DBP+BBP+DEHP)		---	< 0.015	< 0.015	≤ 0.1

(2-2) For toys and childcare articles that can be mouthed

Test Item(s)	Unit	MDL	Test Results		Limited Value**
			1# [▲]	2#	
Di-iso-nonylphthalate(DINP)	%	0.010	N.D.	N.D.	---
Di-n-octylphthalate(DNOP)		0.005	N.D.	N.D.	---
Di-iso-decylphthalate(DIDP)		0.010	N.D.	N.D.	---
Total (DINP+DNOP+DIDP)		---	< 0.025	< 0.025	≤ 0.1

Remark: **The Limited value is based on REACH Annex XVII (entry 51&52).

3. Lead(Pb) Content

Test Method: With reference to EPA 3052-1996 & EPA 6010C-2007, Analysis was performed by ICP-AES.

Test Item	MDL (mg/kg)	Test Results (mg/kg)		Limited Value*** (mg/kg)
		1# [▲]	2#	
Lead(Pb)	10	N.D.	N.D.	500

Remark: ***The Limited value is based on REACH Annex XVII (entry 63).

***** To be continued *****

4. Cadmium (Cd) Content

Test Method: With reference to EN 1122- 2001 Method B, Analysis was performed by ICP-AES.

Test Item	MDL (mg/kg)	Test Results (mg/kg)		Limited Value**** (mg/kg)
		1# [▲]	2#	
Cadmium (Cd)	10	N.D.	N.D.	100

Remark: ****The Limited value is based on REACH Annex XVII (entry 23) and 91/338/EEC.

5. Organotin Content

Test Method: With reference to DIN EN ISO 17353-2005, Analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	Test Results	Limited Value*****
			1# [▲]	
DOT	mg/kg	0.1	N.D.	1000
DBT	mg/kg	0.1	N.D.	1000
TBT	mg/kg	0.1	N.D.	1000
TPhT	mg/kg	0.1	N.D.	1000

Remark: ***** The Limited value is based on REACH Annex XVII (entry 20).

***** To be continued *****

6. Polycyclic Aromatic Hydrocarbons (PAHs) Contents

Test Method: With reference to AfPS GS 2014:01 PAK, Analysis was performed by GC-MS.

Test Items	Unit	MDL	Test Results	
			1# [▲]	2#
Naphthalene	mg/kg	0.1	N.D.	N.D.
Acenaphthylene		0.1	N.D.	N.D.
Acenaphthene		0.1	N.D.	N.D.
Fluorene		0.1	N.D.	N.D.
Phenanthrene		0.1	0.3	0.3
Anthracene		0.1	N.D.	N.D.
Fluoranthene		0.1	N.D.	N.D.
Pyrene		0.1	N.D.	N.D.
Benzo[a]anthracene		0.1	N.D.	N.D.
Chrysene		0.1	N.D.	N.D.
Benzo[b]fluoranthene		0.1	N.D.	N.D.
Benzo[k]fluoranthene		0.1	N.D.	N.D.
Benzo[a]pyrene		0.1	N.D.	N.D.
Indeno[1,2,3-cd]pyrene		0.1	N.D.	N.D.
Dibenzo[a,h]anthracene		0.1	N.D.	N.D.
Benzo[g,h,i]perylene		0.1	N.D.	N.D.
Benzo[j]fluoranthene		0.1	N.D.	N.D.
Benzo[e]pyrene		0.1	N.D.	N.D.
Sum of 18 PAHs		---	0.3	0.3

***** To be continued *****

LIMITS(mg/kg) FOR PAH IN PRODUCTS:

Parameter	Category 1	Category2		Category 3	
	To be taken materials which are intended in the mouth, or materials in toys intended and with long-term skin contact (longer than 30 seconds)	Materials that are not covered in Category 1, with predictable skin contact longer than 30 seconds (long-term skin contact) or repeated short-term skin contact		Materials that do not fall into Category 1& Category 2, With predictable skin contact up to 30 s (short-term skin contact)	
		Toys by Directive 2009/48/EC	Other products by ProdSG	Toys by Directive 2009/48/EC	Other products by ProdSG
Naphthalene	< 1	< 2		< 10	
Acenaphthylene	Total < 1	Total < 5	Total < 10	Total < 20	Total < 50
Acenaphthene					
Fluorene					
Phenanthrene					
Anthracene					
Fluoranthene					
Pyrene					
Benzo[a]anthracene					
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-cd]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Sum of 18 PAHs	< 1	< 5	< 10	< 20	< 50

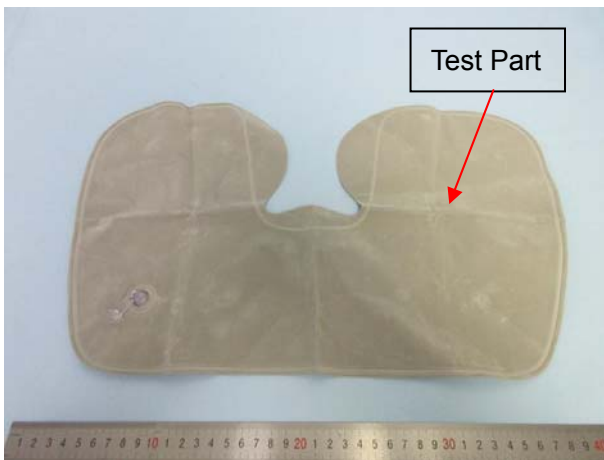
***** To be continued *****

- Note :**
- 1) MDL = Method Detection Limit.
 - 2) N.D. = Not detected, less than MDL.
 - 3) % = Percentage by weight.
 - 4) “---” = Not Regulated.
 - 5) ▲As the client required, the sample was tested in mixture.

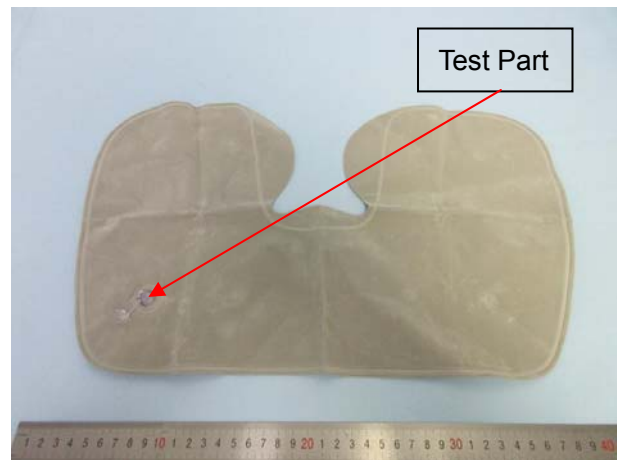
Test Part Description:

1# Grey PVC with flocking fabric

2# Transparent valve

SAMPLE PHOTOS

1#



2#

******* END OF REPORT *******