



Test Report

No.: DGC150428018F

Date: May 04, 2015

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Applicant: Dong guan tong tian xia Rubber co., Ltd

Address: Cunwei industrial area wanjiang district dongguan 523053,china

Manufacturer: Dong guan tong tian xia Rubber co., Ltd

Address: Cunwei industrial area wanjiang district dongguan 523053,china

Sample Name: RUBBER PLAY

Date of Sample Received: April 28, 2015

Test period: April 28, 2015 to May 04, 2015

Test requested: Please refer to next page.

Test method: Please refer to next page.

Test result: Please refer to next page.

Written by: _____

Checked by: _____

Approved by: _____

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Test requested		Results
1.	As specified by client, to determine Phthalates (DEHP, DBP, BBP, DINP, DNOP, DIDP) content on submitted sample in according with Annex XV II item 51&52 of the REACH regulation (EC) No.1907/2006 and amendment No.552/2009 (Formerly known as Directive 2005/84/EC).	Pass
2.	As specified by client, to determine the Cadmium content on submitted sample in according with Annex XVII item 23 of the REACH regulation (EC) No.1907/2006 and amendment No.494/2011 (Formerly known as Directive 91/338/EEC).	Pass
3.	As specified by client, to determine Polycyclic Aromatic Hydrocarbon (PAHs) for compliance with ZEK 01.4-08 issued by the Central Experience Exchange Committee (ZEK).	Pass
4.	As specified by client, to determine the Aromatic Amine content on submitted sample in according with Annex X VII item 43 of the REACH regulation (EC) No1907/2006 and amendment (EU) No 276/2010 (Formerly known as Directive 2002/61/EC).	Pass
5.	As specified by client, to determine Migration of certain elements on submitted sample in according with the European Standard on Safety of Toys EN71-3:2013.	Pass

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Test Result:

1. Phthalates content test

Test method: With reference to EN 14372:2004, and test by GC-MS.

Test Items	Unit	MDL	Acceptable Limit		Results No.1
			For all toys and childcare articles	For toys and childcare articles that can be placed in the mouth	
Di (2-ethyl hexyl)-phthalate (DEHP)	mg/kg	30	---	---	N.D.
Butylbenzyl phthalate (BBP)	mg/kg	30	---	---	N.D.
Dibutyl phthalate (DBP)	mg/kg	30	---	---	N.D.
Di-iso-nonyl phthalate (DINP)	mg/kg	100	---	---	N.D.
Di-n-octyl phthalate (DNOP)	mg/kg	30	---	---	N.D.
Diisodecyl phthalate (DIDP)	mg/kg	100	---	---	N.D.
Total (DEHP+ BBP+DBP)	mg/kg	---	1000	1000	N.D.
Total (DINP+DNOP+DIDP)	mg/kg	---	---	1000	N.D.
Conclusion					Pass

2. Cadmium content test

Test method: With reference to BS EN1122: 2001, tested by ICP-OES.

Test Item	Unit	MDL	Limit	Results
				No.1
Cadmium (Cd)	mg/kg	2	100	N.D.
Conclusion				Pass

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3. PAHs content test (Unit: mg/kg)

Test method: With reference to ZEK 01.4-08 and measured by GC-MS.

Compounds	CAS number	MDL	ZEK's Limit			Results No.1
			Category 1: Contact with food, indented to be put in the mouth and toys for children aged <36 months	Category 2: Contact time>30 seconds	Category 3: Contact time<30 seconds	
(1) Naphthalene (NAP)	91-20-3	0.1	---	---	---	N.D.
(2) Acenaphthylene (ANY)	208-96-8	0.1	---	---	---	N.D.
(3) Acenaphthene (ANA)	83-32-9	0.1	---	---	---	N.D.
(4) Fluorene (FLU)	86-73-7	0.1	---	---	---	N.D.
(5) Phenanthrene (PHE)	85-01-8	0.1	---	---	---	N.D.
(6) Anthracene (ANT)	120-12-7	0.1	---	---	---	N.D.
(7) Fluoranthene (FLT)	206-44-0	0.1	---	---	---	N.D.
(8) Pyrene (PYR)	129-00-0	0.1	---	---	---	N.D.
(9) Benz(a)anthracene (BaA)	56-55-3	0.1	---	---	---	N.D.
(10) Chrysene (CHR)	218-01-9	0.1	---	---	---	N.D.
(11) Benzo(b)fluoranthene (BbF)	205-99-2	0.1	---	---	---	N.D.
(12) Benzo(k)fluoranthene (BkF)	207-08-9	0.1	---	---	---	N.D.
(13) Benzo(a)pyrene (BaP)	50-32-8	0.1	<0.2	<1	<20	N.D.
(14) Indeno(1,2,3-cd)pyrene (IPY)	193-39-5	0.1	---	---	---	N.D.
(15) Dibenz(a,h)anthracene (DBA)	53-70-3	0.1	---	---	---	N.D.
(16) Benzo(g,h,i)perylene (BPE)	191-24-2	0.1	---	---	---	N.D.
(17) Benzo[j]fluoranthene	205-82-3	0.1	---	---	---	N.D.
(18) Benzo[e]pyrene	192-97-2	0.1	---	---	---	N.D.
Total PAHs	---	---	<0.2	<10	<200	N.D.
Conclusion						Pass

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4. Aromatic Amine content test

Test method: With reference to BS EN14362-1:2012 & BS EN 14362-3:2012, tested by GC-MS.

Code	Aromatic Amine Substances	CAS No.	Unit	MDL	Limit	Results
						No.1
1	4-aminobiphenyl xenylamine	92-67-1	mg/kg	20	---	N.D.
2	benzidine	92-87-5	mg/kg	20	---	N.D.
3	4-chloro-o-toluidine	95-69-2	mg/kg	20	---	N.D.
4	2-naphthylamine	91-59-8	mg/kg	20	---	N.D.
5	* o-aminoazotoluene	97-56-3	mg/kg	20	---	N.D.
6	* 5-nitro-o-toluidine	99-55-8	mg/kg	20	---	N.D.
7	4-chloroaniline	106-47-8	mg/kg	20	---	N.D.
8	4-methoxy-m-phenylenediamine	615-05-4	mg/kg	20	---	N.D.
9	4,4'-methylenedianiline	101-77-9	mg/kg	20	---	N.D.
10	3,3'-dichlorobenzidine	91-94-1	mg/kg	20	---	N.D.
11	3,3'-dimethoxybenzidine	119-90-4	mg/kg	20	---	N.D.
12	3,3'-dimethylbenzidine	119-93-7	mg/kg	20	---	N.D.
13	4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	20	---	N.D.
14	6-methoxy-m-toluidine p-cresidine	120-71-8	mg/kg	20	---	N.D.
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	20	---	N.D.
16	4,4'-oxydianiline	101-80-4	mg/kg	20	---	N.D.
17	4,4'-thiodianiline	139-65-1	mg/kg	20	---	N.D.
18	o-toluidine	95-53-4	mg/kg	20	---	N.D.
19	4-methyl-m-phenylenediamine	95-80-7	mg/kg	20	---	N.D.
20	2,4,5-trimethylaniline	137-17-7	mg/kg	20	---	N.D.
21	o-anisidine	90-04-0	mg/kg	20	---	N.D.
22	4-amino azobenzene	60-09-3	mg/kg	20	---	N.D.
23	2,4-Xylidine	95-68-1	mg/kg	20	---	N.D.
24	2,6-Xylidine	87-62-7	mg/kg	20	---	N.D.
Sum of the above-mentioned Aromatic Amine			mg/kg	---	30	N.D.
Conclusion						Pass

Remark: " * " The o-aminoazotoluene(97-56-3)and 5-nitro-o-toluidine (99-55-8) are further reduced to o-toluidine(95-53-4) and 4-methyl-m-phenylenediamine (95-80-7).

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5. Migration of certain elements test

Test Items	Measuring Instrument	Unit	MDL	Limit	Results
				In scraped-off material	No.1
Soluble Aluminium (Al)	ICP-OES	mg/kg	2.0	70000	N.D.
Soluble Antimony (Sb)		mg/kg	2.0	560	N.D.
Soluble Arsenic (As)		mg/kg	0.5	47	N.D.
Soluble Barium (Ba)		mg/kg	2.0	18750	N.D.
Soluble Boron (B)		mg/kg	2.0	15000	N.D.
Soluble Cadmium (Cd)		mg/kg	0.1	17	N.D.
Soluble Cobalt (Co)		mg/kg	2.0	130	N.D.
Soluble Copper (Cu)		mg/kg	2.0	7700	N.D.
Soluble Lead (Pb)		mg/kg	2.0	160	N.D.
Soluble Manganese (Mn)		mg/kg	2.0	15000	N.D.
Soluble Mercury (Hg)		mg/kg	1.0	94	N.D.
Soluble Nickel (Ni)		mg/kg	2.0	930	N.D.
Soluble Selenium (Se)		mg/kg	2.0	460	N.D.
Soluble Strontium (Sr)		mg/kg	2.0	56000	N.D.
Soluble Tin (Sn)		mg/kg	2.0	180000	N.D.
Soluble Zinc (Zn)	mg/kg	0.1	46000	573	
Soluble Chromium(III) (Cr ³⁺)	/	mg/kg	2.0	460	N.D.
Soluble Chromium(VI) (Cr ⁶⁺)	UV-Vis	mg/kg	0.005	0.2	N.D.
Soluble Organic tin	GC-MS	mg/kg	0.1	12	N.D.
Conclusion					Pass

Remark:

- (1) The results of Soluble Chromium(III) (Cr³⁺) = Soluble Chromium(Cr)-Soluble Chromium(Cr⁶⁺);
- (2) The migration of organic tins content is expressed as Tributyltin(TBT) in this test report.

Test Part Description:

No.1: Black rubber mat

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Note:

- (1) mg/kg=ppm=0.0001%;
- (2) N.D.=Not Detected(<MDL);
- (3) MDL=Method Detection Limit;
- (4) “---”=Not Conducted.

Photograph of Sample:



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End of Report

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