

TEST REPORT

Job No./Report No TR1301002

Date:11 April 2018

Page 1 of 8

PILSAN OYUNCAK VE PLASTİK SANAYİ TİCARET A.Ş.YENİ MAHALLE,MERKEZ BUCAĞI,D-100 KARAYOLU CADDESİ NO:32 BÜYÜKKARİŞTİRAN
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To the attention of Gürhan Tekin

The following sample(s) was (were) submitted and identified by/on behalf of the client as:

Sample No.	Sample Description
A	Plastic Ball

Client's reference No. : TR 1301002
Sample Receiving Date : 6 April 2018
Test Performing Period : 6 April 2018 ~ 11 April 2018

Overall Conclusion : **PASS**

Test Results : Please refer to the next page(s).

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TEST REPORT

Job No./Report No TR1301002

Date:11 April 2018

Page 2 of 8

Test Parameters	Result		
	A1	A2	A3
Chemical tests			
Polycyclic Aromatic Hydrocarbons (PAHs) Content for REACH	-	-	M
Phthalates	-	-	M
Migration of Certain Elements - Category III	M	M	-

Remarks	:	M = Meets client's requirement
		F = Below client's requirement
		I = Inconclusive
		* = No specified requirement
		# = For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, therefore, it is recommended to test on individual basis.
Notes:	Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).	
	The composite sampling method is based on the client's special request and is a modification from the testing standard.	
	Residual sample can be returned to client if requested.	

The test results relate to the tested items only.
Test reports without SGS seal and authorized signatures are invalid.
Reported results do not include uncertainties.

Issued in Istanbul
Signed for and on behalf of
SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

Selen Harman
Customer Services Team Leader

Yağız Barın
Section Manager




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TEST REPORT

Job No./Report No TR1301002

Date:11 April 2018

Page 3 of 8

Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour
A	Plastic Ball	A1	Main	Plastic	Orange
A	Plastic Ball	A2	Print on main	Plastic	Black
A	Plastic Ball	A3	Printed ball	Plastic	Orange-black

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TEST REPORT

Job No./Report No TR1301002

Date:11 April 2018

Page 4 of 8

Polycyclic Aromatic Hydrocarbons (PAHs) Content¹

Test Method: SGS In House Test Method RSTS-CHEM-232-1 (based on to AfPS GS 2014:01 PAK)-
Analysis by GC-MS

<u>Test Item</u>	<u>Cas Number</u>	<u>A3</u>
Naphthalene	91-20-3	n.d.
Acenaphthylene	208-96-8	n.d.
Acenaphthene	83-32-9	n.d.
Fluorene	86-73-7	n.d.
Phenanthrene	85-01-8	n.d.
Anthracene	120-12-7	n.d.
Fluoranthene	206-44-0	n.d.
Pyrene	129-00-0	n.d.
Chrysene	218-01-9	n.d.
Benz(a)anthracene	56-55-3	n.d.
Benzo(b)fluoranthene	205-99-2	n.d.
Benzo(j)fluoranthene	205-82-3	n.d.
Benzo(k)fluoranthene	207-08-9	n.d.
Benzo(a)pyrene	50-32-8	n.d.
Benzo[e]pyrene	192-97-2	n.d.
Indeno[1,2,3-cd]pyrene	193-39-5	n.d.
Dibenz[a,h]anthracene	53-70-3	n.d.
Benzo[g,h,i]perylene	191-24-2	n.d.
Total 18 PAHs		n.d.
	Conclusion[#]	Pass

Note(s): n.d. = not detected

Detection Limit = 0.1 mg/kg (For individual compound)

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Conclusion is based on the limit per AfPS (Cat 2 Other products under ProdSG)

AfPS (German commission for Product Safety): GS PAHs requirement

Parameter	Category 1	Category 2		Category 3	
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long-term skin or frequent contact).		Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term skin contact).	
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG
Naphtalene (mg/kg)	< 1	< 2		< 10	
Acenaphthylene (mg/kg)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Acenaphthene (mg/kg)					
Fluorene (mg/kg)					
Phenanthrene (mg/kg)					
Anthracene (mg/kg)					
Fluoranthene (mg/kg)					
Pyrene (mg/kg)					
Benzo[a]anthracene (mg/kg)					
Chrysene (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
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
Indeno[1,2,3-cd]pyrene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenz[a,h]anthracene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene (mg/kg)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Sum 18 PAH (mg/kg)	< 1	< 5	< 10	< 20	< 50

Remark: The German committee on Product Safety (AfPS) adopted a new PAHs document on August 4, 2014, which is taken into account by the GS certification bodies for the certification process of the GS mark now. The transitional arrangements and deadlines contained therein shall determine the procedure for existing certificates and new certificates; also there are exceptions.

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TEST REPORT

Job No./Report No TR1301002

Date:11 April 2018

Page 6 of 8

Phthalates

Test Method: With reference to EN 14372:2004 - Analysis by GC-MS

Component	Cas No	A3
Dibutyl Phthalate (DBP)	84-74-2	n.d.
Benzylbutyl Phthalate (BBP)	85-68-7	n.d.
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	n.d.
Total (DBP+BBP+DEHP)		n.d.
	Conclusion	Pass
Diisononyl Phthalate (DINP)	28553-12-0	n.d.
Di-n-octyl Phthalate (DNOP)	117-84-0	n.d.
Diisodecyl Phthalate (DIDP)	26761-40-0	n.d.
Total (DINP+DNOP+DIDP)		n.d.
	Conclusion	Pass

Note(s):

n.d. = not detected
 Detection Limit = For DBP, BBP, DEHP, DIBP and DNOP: 0,003%, For DINP, DIDP: 0,01% (for individual compound)

Recommended Max. Limit=

0,1 % for Total (DBP+BBP+DEHP) For all childcare articles
 0,1 % for Total (DINP+DNOP+DIDP) For childcare articles if it can be placed in the mouth

Remark:

Recommended Max. limit specified by entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

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TEST REPORT

Job No./Report No TR1301002

Date:11 April 2018

Page 7 of 8

European Directive 2009/48/EC-Migration of certain elements-Category III¹

Test Method: With reference to EN 71 Part 3:2013+A1:2014. Analysis was performed by ICP-MS

Test Item	A1	A2	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Mass of trace amount(mg)	--	--	--	--
Soluble Aluminium (Al)	ND	ND	50	70000
Soluble Antimony (Sb)	ND	ND	10	560
Soluble Arsenic (As)	ND	ND	10	47
Soluble Barium (Ba)	ND	ND	50	18750
Soluble Boron (B)	ND	ND	50	15000
Soluble Cadmium (Cd)	ND	ND	5	17
Soluble Chromium (Cr)	ND	ND	0,15	--
Soluble Chromium (III)# (Cr (III))	--	--	5	460
Soluble Chromium (VI)# (Cr (VI))	--	--	0,18	0,2
Soluble Cobalt (Co)	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	50	7700
Soluble Lead (Pb)	ND	ND	10	160
Soluble Manganese (Mn)	ND	ND	50	15000
Soluble Mercury (Hg)	ND	ND	10	94
Soluble Nickel (Ni)	ND	ND	10	930
Soluble Selenium (Se)	ND	ND	10	460
Soluble Strontium (Sr)	ND	ND	50	56000
Soluble Tin (Sn)	ND	ND	4,9	180000
Soluble Organic Tin [^]	--	--	--	12
Soluble Zinc (Zn)	ND	ND	50	46000
Conclusion	Pass	Pass		

Note(s): mg/kg = milligram per kilogram
ND = not detected

Remark(s): # Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN 71 Part 3:2013+A1:2014
[^] Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71 Part 3:2013+A1:2014

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TEST REPORT

Job No./Report No TR1301002

Date:11 April 2018

Page 8 of 8



* * * End of Test Report * * *

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