

TEST REPORT Job No./Report No TR1981392 Date: 27 August 2021 Page 1 of 17

TUNA ÇOCUK GEREÇLERİ A Ş
 DERİ OSB MAH LAZER SOK NO 5 TUZLA
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To the attention of Levent Kuzucu

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

Sample No.	Sample Description
A	Pool Ball 9030

Client's reference No. : TR 1981392
 Age group applied in testing : +12M
 Age group assessed as per age guideline : +12M
 Sample Receiving Date : 18 August 2021
 Test Performing Period : 18 August 2021~27 August 2021
Overall Conclusion : **PASS**

Test Results : Please refer to the next page(s).
Performed Test Summary: Selected test(s) as requested by client against Client's performance standard.

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 2 of 17

Test Parameters	Result					
	A1	A1 + A2	A2	A3	A3 + A4	A4
Chemical tests						
Polycyclic Aromatic Hydrocarbons (PAHs) Content for REACH	-	M	-	-	M	-
Phthalates	-	M	-	-	M	-
Azo Dyes (Colorant extraction)	-	-	-	-	-	-
Azo Dyes (Direct reduction)	-	-	-	-	-	-
Migration of Certain Elements - Category III- Chromium VI Confirmation	-	-	-	-	-	-
Migration of Certain Elements - Category III	M	-	M	M	-	M

Test Parameters	Result			
	A5	A5 + A6	A6	A7
Chemical tests				
Polycyclic Aromatic Hydrocarbons (PAHs) Content for REACH	-	-	-	-
Phthalates	-	-	-	M
Azo Dyes (Colorant extraction)	-	M	-	M
Azo Dyes (Direct reduction)	-	M	-	M
Migration of Certain Elements - Category III- Chromium VI Confirmation	-	-	M	M
Migration of Certain Elements - Category III	M	-	M	M

Test Parameters	Result
Physical tests	
Safety of Toys - Mechanical and Physical Properties	M
Safety of Toys - Flammability	M

Remarks	M = Meets client's requirement
	F = Does not meet client's requirement
	I = Inconclusive
	* = No specified requirement
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.

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 3 of 17

The test results relate to the tested items only.
Test reports without SGS seal and authorised signatures are invalid.

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

Mert Kurtuluş
Customer Services Supervisor

Bora Şirinbilek
Hardline & CPCH Testing Services Manager




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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021 Page 4 of 17

Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour	Fiber Type*
A	Pool Ball 9030	A1	Ball	Plastic	Red	-
A	Pool Ball 9030	A2	Ball	Plastic	Green	-
A	Pool Ball 9030	A3	Ball	Plastic	Blue	-
A	Pool Ball 9030	A4	Ball	Plastic	Yellow	-
A	Pool Ball 9030	A5	Pool main	Textile	Pink	Type C
A	Pool Ball 9030	A6	Pool main	Textile	Grey	Type C

*This fiber type identification is for the selection of azo dye testing procedure.

Note:

Type A=Textile contains natural fibers only and/or regenerated fibers exclude the group of acetate.

Type B=Textile contains polyester fibers only

Type C=Textile contains man-made fibers and/or man-made blended fibers (except polyester fibers)

N/A: Not Applicable

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 5 of 17

Azo Dyes (Direct reduction)¹

Test Method: With reference to ISO 14362-1:2017 - Analysis by GC-MS, Confirmation by LC-DAD

Component	Cas No	A5+A6
4-Aminobiphenyl	92-67-1	n.d.
Benzidine	92-87-5	n.d.
4-Chlor-o-toluidine	95-69-2	n.d.
2-Naphthylamine	91-59-8	n.d.
o-Aminoazotoluene	97-56-3	n.d.
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	n.d.
4-Chloroaniline	106-47-8	n.d.
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	n.d.
4,4'-Diaminodiphenylmethane, MDA	101-77-9	n.d.
3,3'-Dichlorobenzidine	91-94-1	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.
3,3'-Dimethylbenzidine	119-93-7	n.d.
4,4'-methylenedi-o-toluidine /		
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	n.d.
p-Cresidine	120-71-8	n.d.
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	n.d.
4,4'-Oxydianiline	101-80-4	n.d.
4,4'-Thiodianiline	139-65-1	n.d.
o-Toluidine	95-53-4	n.d.
4-methyl-m-phenylenediamine / 2,4- Toluendiamine, TDA	95-80-7	n.d.
2,4,5-Trimethylaniline	137-17-7	n.d.
**4-aminoazobenzene	60-09-3	n.d.
O-Anisidine	90-04-0	n.d.
2,4-Xylidine	95-68-1	n.d.
2,6-Xylidine	87-62-7	n.d.
	Conclusion	Pass

Note(s):

n.d. = not detected

Detection Limit = 5 mg/kg

Recommended Max. Limit = 30 mg/kg

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 6 of 17

Remark:

Direct reduction refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses.

4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.

In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.

**ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "n.d." (i.e. <5.0 mg/kg). Otherwise, ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 7 of 17

Azo Dyes (Colorant extraction)¹

Test Method: With reference to ISO 14362-1:2017 - Analysis by GC-MS, Confirmation by LC-DAD

Component	Cas No	A5+A6
4-Aminobiphenyl	92-67-1	n.d.
Benzidine	92-87-5	n.d.
4-Chlor-o-toluidine	95-69-2	n.d.
2-Naphthylamine	91-59-8	n.d.
o-Aminoazotoluene	97-56-3	n.d.
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	n.d.
4-Chloroaniline	106-47-8	n.d.
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	n.d.
4,4'-Diaminodiphenylmethane, MDA	101-77-9	n.d.
3,3'-Dichlorobenzidine	91-94-1	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.
3,3'-Dimethylbenzidine	119-93-7	n.d.
4,4'-methylenedi-o-toluidine /		
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	n.d.
p-Cresidine	120-71-8	n.d.
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	n.d.
4,4'-Oxydianiline	101-80-4	n.d.
4,4'-Thiodianiline	139-65-1	n.d.
o-Toluidine	95-53-4	n.d.
4-methyl-m-phenylenediamine / 2,4- Toluendiamine, TDA	95-80-7	n.d.
2,4,5-Trimethylaniline	137-17-7	n.d.
**4-aminoazobenzene	60-09-3	n.d.
O-Anisidine	90-04-0	n.d.
2,4-Xylidine	95-68-1	n.d.
2,6-Xylidine	87-62-7	n.d.
	Conclusion	Pass

Note(s):

n.d. = not detected

Detection Limit = 5 mg/kg

Recommended Max. Limit = 30 mg/kg

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 8 of 17

Remark: Colorant extraction refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 Clause 10.1 and relevant clauses.

4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.

In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.

**ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "n.d." (i.e. <5.0 mg/kg). Otherwise, ISO 14362-3:2017 will be employed to verify the presence of 4-AAB

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 9 of 17

Polycyclic Aromatic Hydrocarbons (PAHs) Content for REACH¹

Test Method: With reference to AfPS GS 2019:01 PAK - Analysis by GC-MS

	<u>CAS-No.</u>	<u>A1+A2</u>	<u>A3+A4</u>
Benz(a)anthracene (BaA)	56-55-3	n.d.	n.d.
Benzo(a)pyrene (BaP)	50-32-8	n.d.	n.d.
Benzo(b)fluoranthene (BbF)	205-99-2	n.d.	n.d.
Benzo(k)fluoranthene (BkF)	207-08-9	n.d.	n.d.
Benzo[e]pyrene (BeP)	192-97-2	n.d.	n.d.
Benzo[j]fluoranthene (BjF)	205-82-3	n.d.	n.d.
Chrysene (CHR)	218-01-9	n.d.	n.d.
Dibenz[a,h]anthracene (DBA)	53-70-3	n.d.	n.d.
Conclusion of EU 8 PAHs⁺	-	Pass	Pass

Notes:

n.d. = not detected

Reporting Limit = 0,1 mg/kg

Requirement according to REACH Annex XVII Entry 50 Paragraph 5 to 8 and Entry 72 =

Parameter	CAS No.	Permissible Limit		
		Consumer Product	Toy or Childcare Product	Textile or Footwear product
Benz[a]anthracene	56-55-3	1.0	0.5	1.0
Benzo[b]fluoranthene / Benzo[e]acephenanthrylene	205-99-2	1.0	0.5	1.0
Benzo[a]pyrene	50-32-8	1.0	0.5	1.0
Benzo[e]pyrene	192-97-2	1.0	0.5	1.0
Benzo[j]fluoranthene	205-82-3	1.0	0.5	1.0
Benzo[k]fluoranthene	207-08-9	1.0	0.5	1.0
Chrysene	218-01-9	1.0	0.5	1.0
Dibenz[a,h]anthracene	53-70-3	1.0	0.5	1.0

Remark: + Conclusion is based on the limit specified by Entry 50 of Commission Regulation (EU) No 1272/2013 and Entry 72 of Regulation (EC) No 1513/2018 amending Annex XVII to Regulation (EC) No 1907/2006.

The permissible limit is specified in Entry 50 of Commission Regulation (EU) No 1272/2013 and Entry 72 of Regulation (EC) No 1513/2018 amending Annex XVII to Regulation (EC) No 1907/2006.

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 10 of 17

Phthalates¹

Test Method: With reference to EN 14372:2004 Clause 6.3.2 - Analysis by GC-MS

Component	Cas No	Result (%)	
		A1+A2	A3+A4
Dibutyl Phthalate (DBP)	84-74-2	n.d.	n.d.
Benzylbutyl Phthalate (BBP)	85-68-7	n.d.	n.d.
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	n.d.	n.d.
Di-iso-butyl Phthalate (DIBP)	84-69-5	n.d.	n.d.
Total (DBP+BBP+DEHP+DIBP)		n.d.	n.d.
	Conclusion	Pass	Pass
Diisononyl Phthalate (DINP)	28553-12-0	n.d.	n.d.
Di-n-octyl Phthalate (DNOP)	117-84-0	n.d.	n.d.
Diisodecyl Phthalate (DIDP)	26761-40-0	n.d.	n.d.
Total (DINP+DNOP+DIDP)		n.d.	n.d.
	Conclusion	Pass	Pass

Note(s): n.d. = not detected
1% =10000 mg/kg

Remark(s): 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).

Detection Limit = For DBP, BBP, DEHP, DIBP and DNOP: 0,0030%, For DINP, DIDP: 0,0100% (for individual compound)

Recommended Max. Limit(s)= 0,1 % for Total (DBP+BBP+DEHP+DIBP) For all childcare articles
0,1 % for Total (DINP+DNOP+DIDP) For childcare articles if it can be placed in the mouth

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 11 of 17

Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 - EN71-3: 2019 – Migration of certain elements¹
Category III: Scrapped-off toy material

Method : With reference to EN71-3:2019. Analysis of general elements was performed by ICP-OES AND Chromium (III) was obtained by calculation, Chromium (VI) was analyzed by IC-UV/VIS / LC-ICP-MS.

Test Item	Result (mg/kg)		Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	A6			
Mass of trace amount (mg)	--		--	--
Soluble Aluminium (Al)	ND		50	28130*
Soluble Antimony (Sb)	ND		10	560
Soluble Arsenic (As)	ND		10	47
Soluble Barium (Ba)	ND		50	18,750
Soluble Boron (B)	ND		50	15,000
Soluble Cadmium (Cd)	ND		5	17
Soluble Chromium (III) (Cr (III))	ND		5	460
Soluble Chromium (VI) (Cr (VI))	ND		0.053	0.053
Soluble Cobalt (Co)	ND		10	130
Soluble Copper (Cu)	ND		50	7,700
Soluble Lead (Pb)	ND		10	23
Soluble Manganese (Mn)	ND		50	15,000
Soluble Mercury (Hg)	ND		10	94
Soluble Nickel (Ni)	ND		10	930
Soluble Selenium (Se)	ND		10	460
Soluble Strontium (Sr)	ND		50	56,000
Soluble Tin (Sn)	ND		4.9	180,000
Soluble Organic Tin [^]	--		--	12
Soluble Zinc (Zn)	ND		50	46,000
Conclusion	PASS		--	--

*According to Commission Directive (EU) 2019/1922.

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 12 of 17

Note : - mg/kg = milligram per kilogram
 - ND = Not Detected
 - 1% = 10000 mg/kg = 10000 ppm

- ^ The test result of soluble organic tin was derived from soluble tin screening and then confirmation test for soluble organic tin on component exceeding the screening limit of 0.4.9 mg/kg soluble Sn.
- Soluble Chromium (III) = Soluble Total Chromium – Soluble Chromium (VI)

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 13 of 17

Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 - EN71-3: 2019 – Migration of certain elements¹
Category III: Scrapped-off toy material

Method : With reference to EN71-3:2019. Analysis of general elements was performed by ICP OES.

Test Item	Result (mg/kg)					Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	<u>A1</u>	<u>A2</u>	<u>A3</u>	<u>A4</u>	<u>A5</u>		
Mass of trace amount (mg)	--	--	--	--	--	--	--
Soluble Aluminium (Al)	ND	ND	ND	ND	ND	50	28130*
Soluble Antimony (Sb)	ND	ND	ND	ND	ND	10	560
Soluble Arsenic (As)	ND	ND	ND	ND	ND	10	47
Soluble Barium (Ba)	ND	ND	ND	ND	ND	50	18,750
Soluble Boron (B)	ND	ND	ND	ND	ND	50	15,000
Soluble Cadmium (Cd)	ND	ND	ND	ND	ND	5	17
Soluble Chromium (Cr)	ND	ND	ND	ND	ND	0.053	--
Soluble Chromium (III) [#] (Cr (III))	--	--	--	--	--	5	460
Soluble Chromium (VI) [#] (Cr (VI))	--	--	--	--	--	0.053	0.053
Soluble Cobalt (Co)	ND	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	ND	ND	ND	50	7,700
Soluble Lead (Pb)	ND	ND	ND	ND	ND	10	23
Soluble Manganese (Mn)	ND	ND	ND	ND	ND	50	15,000
Soluble Mercury (Hg)	ND	ND	ND	ND	ND	10	94
Soluble Nickel (Ni)	ND	ND	ND	ND	ND	10	930
Soluble Selenium (Se)	ND	ND	ND	ND	ND	10	460
Soluble Strontium (Sr)	ND	ND	ND	ND	ND	50	56,000
Soluble Tin (Sn)	ND	ND	ND	ND	ND	4.9	180,000
Soluble Organic Tin [^]	--	--	--	--	--	--	12
Soluble Zinc (Zn)	ND	ND	ND	ND	ND	50	46,000
Conclusion	PASS	PASS	PASS	PASS	PASS	--	--

*According to Commission Directive (EU) 2019/1922.

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 14 of 17

Note : - mg/kg = milligram per kilogram
 - ND = Not Detected
 - 1% = 10000 mg/kg = 10000 ppm

- # The test result of soluble chromium (III) and chromium (VI) were derived from soluble chromium screening and then confirmation test for soluble chromium (III) and soluble Chromium (VI) on component with soluble chromium exceeding the screening limit of 0.053 mg/kg soluble Cr.
- ^ The test result of soluble organic tin was derived from soluble tin screening and then confirmation test for soluble organic tin on component exceeding the screening limit of 4.9 mg/kg soluble Sn.

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 15 of 17

This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

European Standard on Safety of Toys		
Mechanical and Physical Properties ¹		
Test Method:	BS EN 71-1: 2014 + A1:2018	
A		
CLAUSE	DESCRIPTION	RESULT
4	GENERAL REQUIREMENTS	
4.1	Material	Pass
4.7	Edges	Pass
4.8	Points and Metallic Wires	Pass
5	TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS	
5.1	Before abuse tests-small part	Pass
6	PACKAGING	Pass
7	WARNINGS, MARKINGS AND INSTRUCTIONS FOR USE	See Remark 1
Remark 1: All information should be given in the national language of country where the toy is to be sold. (Evaluated Language: Turkish)		
7.1	General	Pass

This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

Flammability of Toys ¹		
Test Method:	BS EN 71- 2: 2011 + A1:2014	
A		
CLAUSE	DESCRIPTION	RESULT
4	GENERAL REQUIREMENTS	
4.1	a) Cellulose Nitrate Control	Pass
4.5	Soft filled toys	Pass

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 16 of 17

Labeling requirement (Washing/Cleaning instruction, CE mark, importer / manufacturer name and address, product identification) according to the Directive 2009/48/EC – Safety of toys

Summary table

-	Observation Result	Location
Washing/Cleaning instruction	Present	Packaging
CE mark	Present	Packaging
Importer's Name & Address	-	-
Manufacturer's Name & Address	Present	Packaging
Product ID	Present	Packaging

Not/ Note:

1) According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.

2) CE marking should be visible from outside the packaging and its height must be at least 5mm.

3) Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.

4) Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

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TEST REPORT

Job No./Report No TR1981392

Date:27 August 2021

Page 17 of 17



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End of Test Report

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