

Test Report

Job No./Report No TR1936730

Date: 8 June 2021

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LISANS KIRTASIYE OFIS GERECLERI SAN VE TIC AS

AYDINLI İSTANBUL ANADOLU YAKASI OSB SIT NO:6 PK34953 TUZLA/ İSTANBUL

TEL: 02164207806

FAX: 02164207805

To the attention of Sacit Örnekcı

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

Sample No.	Sample Description
A	Artdeco Multi Surface Acrylic Dye

Client's reference No. : TR 1936730
Colour : White-Black-Red-Purple-Green-Brown-Yellow-Blue
Article No. : 340-360-220-250-285-295-201-270
Manufacturer : LİSANS KIRTASIYE OFİS GER. SAN. ve TİC. A.Ş.
Sample Receiving Date : 1 June 2021
Test Performing Period : 1 June 2021 ~ 8 June 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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SGS applied shared risk decision rule.

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Test Parameters	Result					
	A1	A2	A3	A4	A5	A6
Chemical tests						
Migration of Certain Elements - Category II - Organic Tin Confirmation	-	M	-	-	-	-
Migration of Certain Elements - Category II- Chromium VI Confirmation	M	M	M	M	M	M
Migration of Certain Elements - Category II	M	M	M	M	M	M

Test Parameters	Result	
	A7	A8
Chemical tests		
Migration of Certain Elements - Category II- Chromium VI Confirmation	M	M
Migration of Certain Elements - Category II	M	M

Remarks	:	M = Meets client's requirement
		F = Exceed 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).	
	Residual sample can be returned to client if requested.	

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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



Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Material No.	Component	Material	Colour
A	Artdeco Multi Surface Acrylic Dye	A1	Dye-201	Dye	Yellow
A	Artdeco Multi Surface Acrylic Dye	A2	Dye-270	Dye	Blue
A	Artdeco Multi Surface Acrylic Dye	A3	Dye-295	Dye	Brown
A	Artdeco Multi Surface Acrylic Dye	A4	Dye-340	Dye	White
A	Artdeco Multi Surface Acrylic Dye	A5	Dye-250	Dye	Purple
A	Artdeco Multi Surface Acrylic Dye	A6	Dye-220	Dye	Red
A	Artdeco Multi Surface Acrylic Dye	A7	Dye-285	Dye	Green
A	Artdeco Multi Surface Acrylic Dye	A8	Dye-360	Dye	Black

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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 II: Liquid or Sticky toy material

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

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (EN71-3: 2019) (mg/kg)
	<u>A1</u>	<u>A3</u>	<u>A4</u>		
Mass of trace amount (mg)	--	--	--	--	--
Soluble Aluminium (Al)	115	ND	439	50	1,406
Soluble Antimony (Sb)	ND	ND	ND	1	11.3
Soluble Arsenic (As)	ND	ND	ND	0.4	0.9
Soluble Barium (Ba)	ND	ND	ND	50	375
Soluble Boron (B)	ND	ND	ND	50	300
Soluble Cadmium (Cd)	ND	ND	ND	0.1	0.3
Soluble Chromium (III) (Cr (III))	ND	ND	ND	1	9.4
Soluble Chromium (VI) (Cr (VI))	ND	ND	ND	0.0025	0.005
Soluble Cobalt (Co)	ND	ND	ND	0.5	2.6
Soluble Copper (Cu)	ND	ND	ND	50	156
Soluble Lead (Pb)	ND	ND	ND	0.2	0.5
Soluble Manganese (Mn)	ND	ND	ND	50	300
Soluble Mercury (Hg)	ND	ND	ND	0.5	1.9
Soluble Nickel (Ni)	ND	ND	ND	9	18.8
Soluble Selenium (Se)	ND	ND	ND	4	9.4
Soluble Strontium (Sr)	ND	ND	ND	50	1,125
Soluble Tin (Sn)	ND	ND	ND	0.08	3,750
Soluble Organic Tin	--	--	--	--	0.2
Soluble Zinc (Zn)	ND	ND	ND	50	938
Conclusion	PASS	PASS	PASS	--	--

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

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit (EN71-3: 2019) (mg/kg)
	<u>A5</u>	<u>A6</u>	<u>A7</u>		
Mass of trace amount (mg)	--	--	--	--	--
Soluble Aluminium (Al)	54	ND	ND	50	1,406
Soluble Antimony (Sb)	ND	ND	ND	1	11.3
Soluble Arsenic (As)	ND	ND	ND	0.4	0.9
Soluble Barium (Ba)	ND	ND	ND	50	375
Soluble Boron (B)	ND	ND	ND	50	300
Soluble Cadmium (Cd)	ND	ND	ND	0.1	0.3
Soluble Chromium (III) (Cr (III))	ND	ND	ND	1	9.4
Soluble Chromium (VI) (Cr (VI))	ND	ND	ND	0.0025	0.005
Soluble Cobalt (Co)	ND	ND	ND	0.5	2.6
Soluble Copper (Cu)	ND	ND	ND	50	156
Soluble Lead (Pb)	ND	ND	ND	0.2	0.5
Soluble Manganese (Mn)	ND	ND	ND	50	300
Soluble Mercury (Hg)	ND	ND	ND	0.5	1.9
Soluble Nickel (Ni)	ND	ND	ND	9	18.8
Soluble Selenium (Se)	ND	ND	ND	4	9.4
Soluble Strontium (Sr)	ND	ND	ND	50	1,125
Soluble Tin (Sn)	ND	ND	ND	0.08	3,750
Soluble Organic Tin	--	--	--	--	0.2
Soluble Zinc (Zn)	ND	ND	ND	50	938
Conclusion	PASS	PASS	PASS	--	--

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- ^ 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.
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Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (EN71-3: 2019) (mg/kg)
	A8		
Mass of trace amount (mg)	--	--	--
Soluble Aluminium (Al)	ND	50	1,406
Soluble Antimony (Sb)	ND	1	11.3
Soluble Arsenic (As)	ND	0.4	0.9
Soluble Barium (Ba)	ND	50	375
Soluble Boron (B)	ND	50	300
Soluble Cadmium (Cd)	ND	0.1	0.3
Soluble Chromium (III) (Cr (III))	ND	1	9.4
Soluble Chromium (VI) (Cr (VI))	ND	0.0025	0.005
Soluble Cobalt (Co)	ND	0.5	2.6
Soluble Copper (Cu)	ND	50	156
Soluble Lead (Pb)	ND	0.2	0.5
Soluble Manganese (Mn)	ND	50	300
Soluble Mercury (Hg)	ND	0.5	1.9
Soluble Nickel (Ni)	ND	9	18.8
Soluble Selenium (Se)	ND	4	9.4
Soluble Strontium (Sr)	ND	50	1,125
Soluble Tin (Sn)	ND	0.08	3,750
Soluble Organic Tin	--	--	0.2
Soluble Zinc (Zn)	ND	50	938
Conclusion	PASS	--	--

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Category II: Liquid or Sticky toy material

Method : With reference to EN71-3: 2019. Analysis of general elements was performed by ICP-MS. Chromium (III) was obtained by calculation, Chromium (VI) was analyzed by LC-ICP-MS. Organic Tin was analyzed by GC-MS.

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (EN71-3: 2019) (mg/kg)
	A2		
Mass of trace amount (mg)	--	--	--
Soluble Aluminium (Al)	51	50	1,406
Soluble Antimony (Sb)	ND	1	11.3
Soluble Arsenic (As)	ND	0.4	0.9
Soluble Barium (Ba)	ND	50	375
Soluble Boron (B)	ND	50	300
Soluble Cadmium (Cd)	ND	0.1	0.3
Soluble Chromium (III) (Cr (III))	ND	1	9.4
Soluble Chromium (VI) (Cr (VI))	ND	0.0025	0.005
Soluble Cobalt (Co)	ND	0.5	2.6
Soluble Copper (Cu)	ND	50	156
Soluble Lead (Pb)	ND	0.2	0.5
Soluble Manganese (Mn)	ND	50	300
Soluble Mercury (Hg)	ND	0.5	1.9
Soluble Nickel (Ni)	ND	9	18.8
Soluble Selenium (Se)	ND	4	9.4
Soluble Strontium (Sr)	ND	50	1,125
Soluble Tin (Sn)	ND	0.08	3,750
Soluble Organic Tin	See below table	--	0.2
Soluble Zinc (Zn)	ND	50	938
Conclusion	PASS	--	--

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Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)		MDL (mg/kg)
	A2		
Methyl tin (MeT)	ND		0.135
Dimethyl tin (DMT)	ND		0.135
Di-n-propyl tin (DProT)	ND		0.135
Butyl tin (BuT)	ND		0.135
Dibutyl tin (DBT)	0.16		0.135
Tributyl tin (TBT)	ND		0.135
n-Octyl tin (MOT)	ND		0.135
Di-n-octyl tin (DOT)	ND		0.135
Tetrabutyl tin (TeBT)	ND		0.135
Diphenyl tin (DPHT)	ND		0.135
Triphenyl tin (TPhT)	ND		0.135

- Note :
- mg/kg = milligram per kilogram
 - ND = Not Detected
 - 1% = 10000 mg/kg = 10000 ppm
 - Soluble Chromium (III) = Soluble Total Chromium – Soluble Chromium (VI)

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End of Test Report

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