

Test Report

Job No./Report No TR1842833-RV1

Date:12 January 2021

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SPROUT EUROPE APS

VIBEHOLMS ALLE 16,1.SAL,2605 BRONDBY, DK

TEL: +4529432351

To the attention of Sidsel Lundtang Rasmussen

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

Sample No.	Sample Description
A	Sprout pencils graphite, engraved quotes

Client's reference No. : TR 1842833-RV1
 Article No : 1A
 Manufacturer : PRINTY PIECZATKA POLSKA SP. Z.O.O.
 Country of Origin : POLEN
 Country of Destination : WORLDWIDE
 Sample Receiving Date : 11 December 2020
 Resubmit Date : 12 January 2021
 Test Performing Period : 11 December 2020 ~ 19 December 2020

Overall Conclusion : **SEE RESULTS**

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 Parameters	Result		
Chemical tests	A1	A2	A3
Migration of Certain Elements - Category III - Chromium VI Confirmation	M	M	-
Migration of Certain Elements - Category I - Chromium VI Confirmation	-	-	M
Migration of Certain Elements - Category III	M	M	-
Migration of Certain Elements - Category I	-	-	M

Test Parameters	Result
Physical tests	A
Safety of Toys - Mechanical and Physical Properties	See Results
Safety of Toys - Flammability	See Results

Remarks	:	M = Meets client's requirement
		F = Exceed client's requirement
		I = Inconclusive
		* = No specified requirement
		# = See individual result: Result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component <u>has been carried out</u> as requested to determine the compliance of each component to the 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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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.

IN THIS REVISED-1 REPORT, MATERIAL FOR COMPONENT A2 WAS CHANGED IN COMPONENT LIST BY THE REQUEST OF THE APPLICANT.

THIS REPORT SUPERSEDES OUR REPORT NO: TR1842833 DATED 19.01.2020

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	Sprout pencils graphite, engraved quotes	A1	Pencil body main	Wood	Beige
A	Sprout pencils graphite, engraved quotes	A2	Pencil top main	Cellulose	Green
A	Sprout pencils graphite, engraved quotes	A3	Pencil dye main	-	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 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 (EN71-3:2019) (mg/kg)
	A1	A2		
Mass of trace amount (mg)	--	--	--	--
Soluble Aluminium (Al)	ND	ND	50	70,000
Soluble Antimony (Sb)	ND	ND	10	560
Soluble Arsenic (As)	ND	ND	10	47
Soluble Barium (Ba)	ND	ND	50	18,750
Soluble Boron (B)	ND	ND	50	15,000
Soluble Cadmium (Cd)	ND	ND	5	17
Soluble Chromium (III) (Cr (III))	ND	ND	5	460
Soluble Chromium (VI) (Cr (VI))	ND	ND	0.053	0.053
Soluble Cobalt (Co)	ND	ND	10	130
Soluble Copper (Cu)	ND	190	50	7,700
Soluble Lead (Pb)	ND	ND	10	23
Soluble Manganese (Mn)	ND	ND	50	15,000
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	56,000
Soluble Tin (Sn)	ND	ND	4.9	180,000
Soluble Organic Tin [^]	--	--	--	12
Soluble Zinc (Zn)	ND	ND	50	46,000
Conclusion	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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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 I: Dry, brittle, powder-like or pliable 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 IC-UV/VIS / LC-ICP-MS.

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (EN71-3: 2019) (mg/kg)
	A3		
Mass of trace amount (mg)	--	--	--
Soluble Aluminium (Al)	229	50	5,625
Soluble Antimony (Sb)	ND	1	45
Soluble Arsenic (As)	ND	0.5	3.8
Soluble Barium (Ba)	ND	50	1,500
Soluble Boron (B)	ND	50	1,200
Soluble Cadmium (Cd)	ND	0.1	1.3
Soluble Chromium (III) (Cr (III))	ND	5	37.5
Soluble Chromium (VI) (Cr (VI))	ND	0.01	0.02
Soluble Cobalt (Co)	ND	0.5	10.5
Soluble Copper (Cu)	ND	50	622.5
Soluble Lead (Pb)	ND	0.5	2.0
Soluble Manganese (Mn)	ND	50	1,200
Soluble Mercury (Hg)	ND	0.5	7.5
Soluble Nickel (Ni)	ND	10	75
Soluble Selenium (Se)	ND	5	37.5
Soluble Strontium (Sr)	ND	50	4,500
Soluble Tin (Sn)	ND	0.36	15,000
Soluble Organic Tin [^]	--	--	0.9
Soluble Zinc (Zn)	ND	50	3,750
Conclusion	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 0.36mg/kg soluble Sn.
- Soluble Chromium (III) = Soluble Total Chromium – Soluble Chromium (VI)

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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

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

Remark 1: Although the product isn't a toy, it has been tested with standard of EN 71-1 & EN 71-2 by the request of the applicant.

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* * * End of Test Report * * *

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To the attention of Sidsel Lundtang Rasmussen

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Sample No.	Sample Description
A	Sprout pencils graphite, printed quotes

Client's reference No. : TR 1842835-RV1
Article No : 1B
Manufacturer : PRINTY PIECZATKA POLSKA SP. Z.O.O.
Country of Origin : POLEN
Country of Destination : WORLDWIDE
Sample Receiving Date : 11 December 2020
Resubmit Date : 12 January 2021
Test Performing Period : 11 December 2020 ~ 19 December 2020

Overall Conclusion : **SEE RESULTS**

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 Parameters	Result				
	A1	A2	A3	A4	A5
Chemical tests					
Migration of Certain Elements - Category III - Chromium VI Confirmation	M	M	-	M	M
Migration of Certain Elements - Category I - Chromium VI Confirmation	-	-	M	-	-
Migration of Certain Elements - Category III	M	M	-	M	M
Migration of Certain Elements - Category I	-	-	M	-	-

Test Parameters	Result
Safety of Toys - Mechanical and Physical Properties	See Results
Safety of Toys - Flammability	See Results

Remarks	:	M = Meets client's requirement
		F = Exceed client's requirement
		I = Inconclusive
		* = No specified requirement
		# = See individual result: Result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component has been carried out as requested to determine the compliance of each component to the requirement
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THIS REPORT SUPERSEDES OUR REPORT NO: TR1842835 DATED 19.01.2020

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
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A	Sprout pencils graphite, printed quotes	A2	Pencil top main	Cellulose	Green
A	Sprout pencils graphite, printed quotes	A3	Pencil dye main	-	Black
A	Sprout pencils graphite, printed quotes	A4	Pencil coating main	Coating	Black
A	Sprout pencils graphite, printed quotes	A5	Pencil coating main	Coating	Green

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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.

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Mass of trace amount (mg)	--	--	--	--	--	--
Soluble Aluminium (Al)	ND	ND	ND	ND	50	70,000
Soluble Antimony (Sb)	ND	ND	ND	ND	10	560
Soluble Arsenic (As)	ND	ND	ND	ND	10	47
Soluble Barium (Ba)	ND	ND	ND	ND	50	18,750
Soluble Boron (B)	ND	ND	ND	ND	50	15,000
Soluble Cadmium (Cd)	ND	ND	ND	ND	5	17
Soluble Chromium (III) (Cr (III))	ND	ND	ND	ND	5	460
Soluble Chromium (VI) (Cr (VI))	ND	ND	ND	ND	0.053	0.053
Soluble Cobalt (Co)	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	203	ND	ND	50	7,700
Soluble Lead (Pb)	ND	ND	ND	ND	10	23
Soluble Manganese (Mn)	ND	ND	ND	ND	50	15,000
Soluble Mercury (Hg)	ND	ND	ND	ND	10	94
Soluble Nickel (Ni)	ND	ND	ND	ND	10	930
Soluble Selenium (Se)	ND	ND	ND	ND	10	460
Soluble Strontium (Sr)	ND	ND	ND	ND	50	56,000
Soluble Tin (Sn)	ND	ND	ND	ND	4.9	180,000
Soluble Organic Tin [^]	--	--	--	--	--	12
Soluble Zinc (Zn)	ND	ND	ND	ND	50	46,000
Conclusion	PASS	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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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 I: Dry, brittle, powder-like or pliable 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 IC-UV/VIS / LC-ICP-MS.

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (EN71-3: 2019) (mg/kg)
	A3		
Mass of trace amount (mg)	--	--	--
Soluble Aluminium (Al)	319	50	5,625
Soluble Antimony (Sb)	ND	1	45
Soluble Arsenic (As)	ND	0.5	3.8
Soluble Barium (Ba)	ND	50	1,500
Soluble Boron (B)	ND	50	1,200
Soluble Cadmium (Cd)	ND	0.1	1.3
Soluble Chromium (III) (Cr (III))	ND	5	37.5
Soluble Chromium (VI) (Cr (VI))	ND	0.01	0.02
Soluble Cobalt (Co)	ND	0.5	10.5
Soluble Copper (Cu)	ND	50	622.5
Soluble Lead (Pb)	ND	0.5	2.0
Soluble Manganese (Mn)	ND	50	1,200
Soluble Mercury (Hg)	ND	0.5	7.5
Soluble Nickel (Ni)	ND	10	75
Soluble Selenium (Se)	ND	5	37.5
Soluble Strontium (Sr)	ND	50	4,500
Soluble Tin (Sn)	ND	0.36	15,000
Soluble Organic Tin [^]	--	--	0.9
Soluble Zinc (Zn)	ND	50	3,750
Conclusion	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 0.36mg/kg soluble Sn.
- Soluble Chromium (III) = Soluble Total Chromium – Soluble Chromium (VI)

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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

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

Remark 1: Although the product isn't a toy, it has been tested with standard of EN 71-1 & EN 71-2 by the request of the applicant.

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* * * End of Test Report * * *

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