4soft

brings you **StreetMark**



StreetMark Play

Thermoplastic markings

StreetMark surface testing for EN71-3 and PAH

Thermoplastic markings StreetMark

Summary of results:

- **Heavy metals (EN 71-3):** everything is fine. No heavy metals or similar substances found.

- **PAH:** everything is fine too. No polycyclic aromatic hydrocarbons found.

Testing was carried out by the German laboratory Veritas for the presence of heavy metals (according to EN 71-3) and polycyclic aromatic hydrocarbons (PAH). See below for results.

Detailed test results:

Test Report

Customer:	**4soft, s.r.o.** Krkonosska 625 46841 Tanvald Czech Republic	**BV Order No.:** **Report No.:** **Report Version:**	- (25425)139-604574 1
Contact Person:	Mr. Dusan Smid	**Report Date:**	19.05.2025

Sample Information

Testing Requirements:	Tested according to "ordered" requirements		
Sample Description:	Termoplasticky material StreetMark		
Sample Reception:	12.05.2025	**Performance Date:**	12.05.2025 - 19.05.2025
Sampled By:	client		
Material:	Thermoplastic		
Colour:	grey		
Country of Origin:	Czech Republic	**Country of Dest.:**	International

Submitted Samples

No. 1



Report No.: (25425)139-604574

Summary of Test Results

Tested according to "ordered" requirements

Tests required	Evaluation	Remark
Heavy metals, migration of certain elements - scraped off toy material	Pass	
PAH (Polycyclic aromatic hydrocarbons)	Pass	

Report No.: (25425)139-604574

Tested Samples

Article No	Sample ID	Sample description	
	604574-01	1) Plastic sample grey	

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4soft www.streetmark.eu

DAkkS Deutsche Akkreditierungsstelle D-PL-12024-02-00

Report No.: (25425)139-604574

Test Results

Tested according to "ordered" requirements

Sample Description:	1) Plastic sample grey	**Lab Reference No:**	604574-01
Test Method / Standard:	Determination of PAH (Category 2, other consumer products): AfPS GS 2019:01 PAK: GS-specification 2019-05, ultrasound extraction with Toluene, GC-MS analysis, reporting limit: 0.2 mg/kg		
Test Location & Accreditation:	Parameter has been analyzed at accredited BVCPS laboratory Schwerin.		

Parameter	Limit	Value	Evaluation
Benzo (a) pyrene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Benzo (e) pyrene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Benzo (a) anthracene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Benzo (b) fluoranthene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Benzo (j) fluoranthene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Benzo (k) fluoranthene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Chrysene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Dibenzo (a,h) anthracene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Benzo (g,h,i) perylene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Indeno (1,2,3-cd) pyrene	≤ 0.5 mg/kg	<0.2 mg/kg	Pass
Phenanthrene		<0.2 mg/kg	No Specification
Pyrene		<0.2 mg/kg	No Specification
Anthracene		0.34 mg/kg	No Specification
Fluoranthene		<0.2 mg/kg	No Specification
Sum of Phenanthrene, Pyrene, Anthracene and Fluoranthene	≤ 10 mg/kg	0.34 mg/kg	Pass
Naphthalene	≤ 2 mg/kg	<0.2 mg/kg	Pass
Sum of all listed PAH's	≤ 10 mg/kg	0.34 mg/kg	Pass

Test Method / Standard:	Heavy metals, migration of certain elements - scraped off toy material: EN 71-3:2019+A2:2024, reporting limits: Cr III / Cr VI: 0.05 mg/kg, Hg / organic tin: 0.1 mg/kg, As / Ba / Cd / Co / Mn / Ni / Pb / Sb / Se / Sn / Sr: 1 mg/kg, Al / B / Cu / Zn: 10 mg/kg; special case: Hg: 0.02 mg/kg
Test Location & Accreditation:	Parameter has been analyzed at accredited BVCPS laboratory Schwerin.

Parameter	Limit	Value	Evaluation
Aluminium (Al)	≤ 28130 mg/kg	<10 mg/kg	Pass
Antimony (Sb)	≤ 560 mg/kg	<1 mg/kg	Pass
Arsenic (As)	≤ 47 mg/kg	<1 mg/kg	Pass
Barium (Ba)	≤ 18750 mg/kg	<1 mg/kg	Pass
Boron (B)	≤ 15000 mg/kg	<10 mg/kg	Pass
Cadmium (Cd)	≤ 17 mg/kg	<1 mg/kg	Pass
Chromium (Cr)	≤ 460 mg/kg	0.0752 mg/kg	Pass
Chromium III	≤ 460 mg/kg	0.0752 mg/kg	Pass
Chromium VI	≤ 0.053 mg/kg	<0.02 mg/kg	Pass
Cobalt (Co)	≤ 130 mg/kg	<1 mg/kg	Pass
Copper (Cu)	≤ 7700 mg/kg	<10 mg/kg	Pass
Lead (Pb)	≤ 23 mg/kg	<1 mg/kg	Pass
Manganese (Mn)	≤ 15000 mg/kg	<1 mg/kg	Pass
Mercury (Hg)	≤ 94 mg/kg	<0.1 mg/kg	Pass
Nickel (Ni)	≤ 930 mg/kg	<1 mg/kg	Pass
Organic tin	≤ 12 mg/kg	Test not necessary	-

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Thermoplastic markings StreetMark

DAkkS Deutsche Akkreditierungsstelle D-PL-12024-02-00

Report No.: (25425)139-604574

Sample Description:	1) Plastic sample grey	**Lab Reference No:**	604574-01
Test Method / Standard:	Heavy metals, migration of certain elements - scraped off toy material: EN 71-3:2019+A2:2024, reporting limits: Cr III / Cr VI: 0.05 mg/kg, Hg / organic tin: 0.1 mg/kg, As / Ba / Cd / Co / Mn / Ni / Pb / Sb / Se / Sn / Sr: 1 mg/kg, Al / B / Cu / Zn: 10 mg/kg; special case: Hg: 0.02 mg/kg		
Test Location & Accreditation:	Parameter has been analyzed at accredited BVCPS laboratory Schwerin.		

Parameter	Limit	Value	Evaluation
Selenium (Se)	≤ 460 mg/kg	<5 mg/kg	Pass
Strontium (Sr)	≤ 56000 mg/kg	2.45 mg/kg	Pass
Tin (Sn)	≤ 180000 mg/kg	<1 mg/kg	Pass
Zinc (Zn)	≤ 46000 mg/kg	<10 mg/kg	Pass

The test results relate only to the received and tested item. Without the written consent of Bureau Veritas Consumer Products Services Germany GmbH excerpts of this report shall not be reproduced. If the standard or the customer defines no decision rule, the laboratory applies a decision rule following the "Binary Statement for Simple Acceptance Rule (w=0)" (chapter 4.2.1) of ILAC Guidelines on Decision Rules and Statements of Conformity (ILAC-G8:09/2019). The results in this test report are reported in a simplified way (et al. without measurement uncertainty).

The measurement uncertainties underlying each procedure can be viewed here.

The testing of mixed samples is carried out at the customer's explicit request and may imply a deviation from the testing standard. Please note the following: results that are above the limit for the composite sample may be below the limit if the individual samples contained in the composite sample are tested separately. In these cases separate testing of the samples is recommended.

Stefan Pasedag

No results printed beyond this point in the report

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Thermoplastic markings StreetMark

Report No.: (25425)139-604574

Parameters & CAS No.

Heavy metals, migration of certain elements - scraped off toy material	(CAS No.)
Aluminium (Al) (7429-90-5)	
Lead (Pb) (7439-92-1)	
Manganese (Mn) (7439-96-5)	
Mercury (Hg) (7439-97-6)	
Nickel (Ni) (7440-02-0)	
Strontium (Sr) (7440-24-6)	
Tin (Sn) (7440-31-5)	
Antimony (Sb) (7440-36-0)	
Arsenic (As) (7440-38-2)	
Barium (Ba) (7440-39-3)	
Boron (B) (7440-42-8)	
Cadmium (Cd) (7440-43-9)	
Chromium (Cr) (7440-47-3)	
Cobalt (Co) (7440-48-4)	
Copper (Cu) (7440-50-8)	
Zinc (Zn) (7440-66-6)	
Selenium (Se) (7782-49-2)	

Determination of PAH (Category 2, other consumer products)	(CAS No.)
Anthracene (120-12-7)	
Pyrene (129-00-0)	
Benzo (g,h,i) perylene (191-24-2)	
Benzo (e) pyrene (192-97-2)	
Indeno (1,2,3-cd) pyrene (193-39-5)	
Benzo (j) fluoranthene (205-82-3)	
Benzo (b) fluoranthene (205-99-2)	
Fluoranthene (206-44-0)	
Benzo (k) fluoranthene (207-08-9)	
Chrysene (218-01-9)	
Benzo (a) pyrene (50-32-8)	
Dibenzo (a,h) anthracene (53-70-3)	
Benzo (a) anthracene (56-55-3)	
Phenanthrene (85-01-8)	
Naphthalene (91-20-3)	

The Streetmark surface testing sheet was created on May 19, 2025.

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