



BUREAU
VERITAS

NINGBO LOFOS STATIONERY CO., LTD.
宁波乐飞士文具有限公司

Technical Report: (9120)307-0176
测试报告编号: (9120)307-0176
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NINGBO LOFOS STATIONERY CO., LTD.

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NO.529, MINGZHOU WEST ROAD, BEILUN, NINGBO, CHINA

浙江省宁波市北仑区明州西路 529 号二楼

Sample Description: ACRYLIC INK

样品描述: 丙烯马克

Style No(s): PMK900, PMK901, PMK902, PMK903, PMK904, PMK905, PMK906, PMK907, PMK908, PMK909, PMK910, PMK911, PMK912, PMK913, PMK914, PMK915, PMK916, PMK917, PMK918, PMK919, PMK920, PMK921, PMK922, PMK923, PMK924, PMK925, PMK926, PMK927, PMK928, PMK929, PMK930, PMK931, PMK932, PMK933, PMK934, PMK935

Vendor: N/A

供应商: 无

Manufacturer: N/A

制造工厂: 无

Buyer: N/A

买家: 无

Labeled Age Grade: N/A

标记年龄级: 无

Appropriate Age Grade: N/A

适当的年龄等级: 无

Client Specified Age Grade: N/A

客户指定的年龄级: 无

Tested Age Grade: N/A

测试年龄级: 无

UPC Code: N/A

UPC#: 无

Color: N/A

颜色: 无

Sample Quantity: N/A

样本量: 无

SKN/SKU No.: N/A

SKU#: 无

PO No.: N/A

订单号: 无

Ref #: N/A

Ref #: 无

Country of Origin: N/A

原产国: 无

Assortment No.: N/A

分类: 无

Country of Destination: EU

目的国: 欧盟

EXECUTIVE SUMMARY:

摘要

The test component(s) MEETS the following requirement(s):

测试点符合以下标准:

- The migration of certain tested elements in Category II - Liquid or sticky toy material requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2019.
欧盟玩具安全标准 EN71-3: 2019 特定元素的迁移

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RESULTS:

NOTE:

注解:

1. Chinese translation of report just for reference only, English report shall prevail if you have any objection.
报告中文翻译仅供参考，如有异议以英文报告内容为准。
2. As per client request, the tests were conducted on specified components only.
根据客户要求，仅在指定的组件上进行测试。

BVCPS (Shanghai) Nanjing branch contact information for this report

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NANJING BRANCH**

SAM XIA
CHEMICAL SUPERVISOR



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2019)

特定元素的迁移-欧盟玩具安全标准 EN71-3: 2019

Test Method : European Standard EN 71 Part 3: 2019, Section 9.

测试方法: 欧盟玩具安全标准 EN71-3: 2019, 附件 E

Class: Category II - Liquid or sticky toy material

类型: 类型 II-液体或者粘性玩具材料

Sample Identity	Color	Location	Style
A.	Green pigment 绿色颜料	/	/

Analyte 测试项目	Requirement (mg/kg) 要求(毫克/千克)	Result (mg/kg) 结果 (毫克/千克)					
		Sample ID 样品编号					
		Category II 类型 II	A.	/	/	/	/
Aluminium (Al) 铝(Al)	1406	405	/	/	/	/	/
Arsenic (As) 砷(As)	0.9	0.576	/	/	/	/	/
Boron (B) 硼(B)	300	<30	/	/	/	/	/
Barium (Ba) 钡(Ba)	375	<37.5	/	/	/	/	/
Cadmium (Cd) 镉(Cd)	0.3	<0.03	/	/	/	/	/
Cobalt (Co) 钴(Co)	2.6	<0.26	/	/	/	/	/
Chromium III (Cr III) 铬 (三价)	9.4	Combined Cr:0.152	/	/	/	/	/
Chromium VI (Cr VI) 铬 (六价)	0.005	Cr(III): <0.94 Cr(VI): <0.005					



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RESULTS:

Copper (Cu) 铜(Cu)	156	93.7	/	/	/	/	/
Mercury (Hg) 汞(Hg)	1.9	<0.19	/	/	/	/	/
Manganese (Mn) 锰(Mn)	300	<30	/	/	/	/	/
Nickel (Ni) 镍(Ni)	18.8	<1.88	/	/	/	/	/
Lead (Pb) 铅(Pb)	0.5	<0.05	/	/	/	/	/
Antimony (Sb) 锑(Sb)	11.3	<1.13	/	/	/	/	/
Selenium (Se) 硒(Se)	9.4	<0.94	/	/	/	/	/
Tin (Sn) 锡(Sn)	3750	<375	/	/	/	/	/
Organic tin 有机锡	0.2	<0.2*	/	/	/	/	/
Strontium (Sr) 锶(Sr)	1125	<112.5	/	/	/	/	/
Zinc (Zn) 锌(Zn)	938	<93.8	/	/	/	/	/
Mass of trace amount (gram) 微量质量 (克)	-	/	/	/	/	/	/
Conclusion 结论	Pass 通过	/	/	/	/	/	/

mg/kg = milligrams per kilogram (ppm=parts per million)

LT = Less Than

* = Average of duplicate analysis

FR = Failed Result

Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg

= Verified results (see note)

Remark:

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- If combined Cr content exceeds 0.02mg/kg in I mat., 0.005 mg/kg in II mat., or 0.053mg/kg in III mat., confirmation Cr(VI) by LC-ICP-MS or IC and Cr(III) by LC-ICP-MS. If confirmation with IC, Cr(III)=Combined Cr – Cr(VI).
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.
- The European Commission proposed to amend the maximum allowable limit(s) of migratable aluminium of



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RESULTS:

European Parliament and Council Directive 2009/48/EC in particular regarding to Annex II, Part III, Point 13 in order to ensure the alignment to the scientific evidence from The Scientific Committee on Health, Environmental and Emerging Risks (SCHEER) and increase children's safety. See details in Comment.

Note:

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: In house Ion-chromatography analysis.
- Organic tin: EN71 part 3:2019, Annex G by Gas Chromatography – Mass Spectroscopy analysis.

Comment :

Proposals to amendment of European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 :			
-	Type I	Type II	Type III
Element(s)	Aluminium (Al)	Aluminium (Al)	Aluminium (Al)
Current	5 625 mg/kg	1 406 mg/kg	70 000 mg/kg
Proposed^[b]	2 250 mg/kg	560 mg/kg	28 130 mg/kg
^[b] denotes as these maximum allowable limits are referenced from the proposal for a European Commission Directive amending European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13, notified through World Trade Organization (WTO) dated on December 10, 2018 (With Notification Number G/TBT/N/EU/626). The proposal is expected to be adopted in the second quarter of Year 2019 and enter into application 18 months after publication in the Official Journal of the European Union (OJEU).			

-----End The Report-----
-----报告结束-----