

## 检测报告

编号: SHAHL22002537401

日期: 2022年10月21日

第1页, 共6页

客户名称 : 上海晨光文具股份有限公司  
 客户地址 : 上海市奉贤区青村镇奉耀路 588 号/201414

样品名称 : 6色按动圆珠笔  
 款号 : ABPU8101

以上样品及信息由客户提供。

SGS 号 : SHHL2210046312ST  
 收样日期 : 2022年10月17日  
 检测周期 : 2022年10月17日 - 2022年10月21日  
 检测要求 : 根据客户要求检测  
 执行的检测 : 按照客户要求进行下列选定的检测:

	检测要求	结论
1	欧盟委员会关于欧盟玩具指令 2009/48/EC 协调标准的执行决议(EU) 2021/1992 指令-EN 71-3:2019+A1:2021-- 特定元素迁移检测针对第二类: 液态或粘性玩具材料)	符合
2	欧盟 POPs 法规(EU) 2019/1021-C <sub>10</sub> -C <sub>13</sub> 氯代烃(短链氯化石蜡)(SCCPs)	符合
3	GB 21027-2020 - 可迁移元素	符合
4	GB 21027-2020 - 邻苯二甲酸酯	符合

通标标准技术服务(上海)有限公司  
 授权签名

陈翎逸

Lezlie Chen 陈翎逸  
 批准签署人

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检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SHA22-0025374-0001.C001	黑色墨水
SN2	A2	SHA22-0025374-0001.C002	绿色墨水
SN3	A3	SHA22-0025374-0001.C003	粉色墨水
SN4	A4	SHA22-0025374-0001.C004	橙色墨水
SN5	A5	SHA22-0025374-0001.C005	紫色墨水
SN6	A6	SHA22-0025374-0001.C006	蓝色墨水
SN7	A7	SHA22-0025374-0001.C007	淡粉色塑料笔杆带彩色涂层
SN8	A8	SHA22-0025374-0001.C008	淡蓝色塑料笔杆带彩色涂层
SN9	A9	SHA22-0025374-0001.C009	淡棕色塑料笔杆带彩色涂层
SN10	A10	SHA22-0025374-0001.C010	蓝色软塑料

备注:

- (1) 1 mg/kg = 0.0001%
- (2) MDL= 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

### 欧盟委员会关于欧盟玩具指令 2009/48/EC 协调标准的执行决议(EU) 2021/1992 指令-EN 71-

#### 3:2019+A1:2021-- 特定元素迁移检测针对第二类:液态或粘性玩具材料)

检测方法: 参考 EN 71-3:2019+A1:2021, 采用 ICP-MS, GC-MS, IC-UV 或 LC-ICP-MS 进行分析。

检测项目	限值	单位	MDL	A1	A2	A3
可溶性铅 (Pb)	0.5	mg/kg	0.25	ND	ND	ND
可溶性锑 (Sb)	11.3	mg/kg	1.0	ND	ND	ND
可溶性砷 (As)	0.9	mg/kg	0.45	ND	ND	ND
可溶性钡 (Ba)	375	mg/kg	50	ND	ND	ND
可溶性镉 (Cd)	0.3	mg/kg	0.1	ND	ND	ND
可溶性三价铬(CrIII)	9.4	mg/kg	1.0	ND	ND	ND
可溶性六价铬(Cr VI)	0.005	mg/kg	0.0025	ND	ND	ND
可溶性汞 (Hg)	1.9	mg/kg	0.5	ND	ND	ND
可溶性硒 (Se)	9.4	mg/kg	4.0	ND	ND	ND
可溶性硼 (B)	300	mg/kg	50	ND	ND	ND
可溶性钴 (Co)	2.6	mg/kg	0.5	ND	ND	ND
可溶性锰 (Mn)	300	mg/kg	50	ND	ND	ND



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检测项目	限值	单位	MDL	A1	A2	A3
可溶性锶 (Sr)	1125	mg/kg	50	ND	ND	ND
可溶性锌 (Zn)	938	mg/kg	50	ND	ND	ND
可溶性铜 (Cu)	156	mg/kg	50	ND	ND	ND
可溶性铝 (Al)	560	mg/kg	50	ND	ND	ND
可溶性镍 (Ni)	18.8	mg/kg	9.0	ND	ND	ND
可溶性锡 (Sn)	3750	mg/kg	0.08	ND	ND	ND
甲基锡 (MeT)	-	mg/kg	0.03	ND	ND	ND
二丙基锡 (DProT)	-	mg/kg	0.03	ND	ND	ND
二丁基锡 (DBT)	-	mg/kg	0.03	ND	ND	ND
三丁基锡 (TBT)	-	mg/kg	0.03	ND	ND	ND
辛基锡 (MOT)	-	mg/kg	0.03	ND	ND	ND
四丁基锡 (TEBT)	-	mg/kg	0.03	ND	ND	ND
二苯基锡 (DPhT)	-	mg/kg	0.03	ND	ND	ND
二辛基锡 (DOT)	-	mg/kg	0.03	ND	ND	ND
三苯基锡 (TPhT)	-	mg/kg	0.03	ND	ND	ND
丁基锡 (BuT)	-	mg/kg	0.03	ND	ND	ND
二甲基锡 (DMT)	-	mg/kg	0.03	ND	ND	ND
可溶性有机锡之和	0.2	mg/kg	-	ND	ND	ND
<b>结论</b>				符合	符合	符合

检测项目	限值	单位	MDL	A4	A5	A6
可溶性铅 (Pb)	0.5	mg/kg	0.25	ND	ND	ND
可溶性铋 (Sb)	11.3	mg/kg	1.0	ND	ND	ND
可溶性砷 (As)	0.9	mg/kg	0.45	ND	ND	ND
可溶性钡 (Ba)	375	mg/kg	50	ND	ND	ND
可溶性镉 (Cd)	0.3	mg/kg	0.1	ND	ND	ND
可溶性三价铬 (CrIII)	9.4	mg/kg	1.0	ND	ND	ND
可溶性六价铬 (Cr VI)	0.005	mg/kg	0.0025	ND	ND	ND
可溶性汞 (Hg)	1.9	mg/kg	0.5	ND	ND	ND
可溶性硒 (Se)	9.4	mg/kg	4.0	ND	ND	ND
可溶性硼 (B)	300	mg/kg	50	ND	ND	ND
可溶性钴 (Co)	2.6	mg/kg	0.5	ND	ND	ND
可溶性锰 (Mn)	300	mg/kg	50	ND	ND	ND
可溶性锶 (Sr)	1125	mg/kg	50	ND	ND	ND
可溶性锌 (Zn)	938	mg/kg	50	ND	ND	ND
可溶性铜 (Cu)	156	mg/kg	50	ND	ND	ND
可溶性铝 (Al)	560	mg/kg	50	ND	ND	ND
可溶性镍 (Ni)	18.8	mg/kg	9.0	ND	ND	ND
可溶性锡 (Sn)	3750	mg/kg	0.08	ND	ND	ND
甲基锡 (MeT)	-	mg/kg	0.03	ND	ND	ND
二丙基锡 (DProT)	-	mg/kg	0.03	ND	ND	ND
二丁基锡 (DBT)	-	mg/kg	0.03	ND	ND	ND
三丁基锡 (TBT)	-	mg/kg	0.03	ND	ND	ND
辛基锡 (MOT)	-	mg/kg	0.03	ND	ND	ND
四丁基锡 (TEBT)	-	mg/kg	0.03	ND	ND	ND



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检测项目	限值	单位	MDL	A4	A5	A6
二苯基锡 (DPbT)	-	mg/kg	0.03	ND	ND	ND
二辛基锡 (DOT)	-	mg/kg	0.03	ND	ND	ND
三苯基锡 (TPbT)	-	mg/kg	0.03	ND	ND	ND
丁基锡 (BuT)	-	mg/kg	0.03	ND	ND	ND
二甲基锡 (DMT)	-	mg/kg	0.03	ND	ND	ND
可溶性有机锡之和	0.2	mg/kg	-	ND	ND	ND
结论				符合	符合	符合

### 备注:

(1) 根据欧盟于 2021 年 11 月 15 日发布在欧盟官方公报(OJEU)的(EU) 2021/1992 委员会执行决定, EN 71-3:2019+A1:2021 被欧盟玩具指令 2009/48/EC 采纳为协调标准以符合玩具相关安全要求。

(2) 根据 EN 71-3:2019+A1:2021 第 10.1.2 章节规定, Cr(III)结果由以下公式换算得到:  
可溶性三价铬 = 可溶性总铬 - 可溶性六价铬

(3) 样品 A1 的重量是 31.4 mg, 样品 A2 的重量是 25.4 mg, 样品 A3 的重量是 28.8 mg, 样品 A4 的重量是 27.2 mg, 样品 A5 的重量是 29.0 mg, 样品 A6 的重量是 36.2 mg

### 欧盟 POPs 法规(EU) 2019/1021-C<sub>10</sub>-C<sub>13</sub> 氯代烃(短链氯化石蜡)(SCCPs)

检测方法: 参考 ISO 22818:2021, 采用 GC-NCI-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A7	A10
C <sub>10</sub> -C <sub>13</sub> 氯代烃(短链氯化石蜡)(SCCPs)	85535-84-8 及其它	1500	mg/kg	50	ND	ND
结论					符合	符合

### GB 21027-2020 - 可迁移元素

检测方法: 参考 GB 21027-2020 章节 5.1 方法, 采用 ICP-OES 进行分析。

检测项目	限值	单位	MDL	A7	A8	A9
可迁移铅 (Pb)	90	mg/kg	5	ND	ND	ND
可迁移镉 (Sb)	60	mg/kg	5	ND	ND	ND
可迁移砷 (As)	25	mg/kg	2.5	ND	ND	ND
可迁移钡 (Ba)	1000	mg/kg	10	ND	ND	ND
可迁移镉 (Cd)	75	mg/kg	5	ND	ND	ND
可迁移铬 (Cr)	60	mg/kg	5	ND	ND	ND
可迁移汞 (Hg)	60	mg/kg	5	ND	ND	ND
可迁移硒 (Se)	500	mg/kg	10	ND	ND	ND
结论				符合	符合	符合

检测项目	限值	单位	MDL	A10
可迁移铅 (Pb)	90	mg/kg	5	ND
可迁移镉 (Sb)	60	mg/kg	5	ND
可迁移砷 (As)	25	mg/kg	2.5	ND
可迁移钡 (Ba)	1000	mg/kg	10	ND
可迁移镉 (Cd)	75	mg/kg	5	ND



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检测项目	限值	单位	MDL	A10
可迁移铬 (Cr)	60	mg/kg	5	ND
可迁移汞 (Hg)	60	mg/kg	5	ND
可迁移硒 (Se)	500	mg/kg	10	ND
结论				符合

**备注:**

(1) 结果经分析调整

### GB 21027-2020 - 邻苯二甲酸酯

检测方法: 参考 GB 21027-2020 章节 5.5 方法, 采用 GC-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A7	A10
邻苯二甲酸二丁酯(DBP)	84-74-2	-	mg/kg	10	ND	ND
邻苯二甲酸丁苄酯(BBP)	85-68-7	-	mg/kg	10	ND	ND
邻苯二甲酸二(2-乙基)己酯 (DEHP)	117-81-7	-	mg/kg	10	ND	ND
邻苯二甲酸酯之和 (DBP+BBP+DEHP)	-	1000	mg/kg	-	ND	ND
结论					符合	符合

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除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 ( $w=0$ ) 的二元判定规则进行符合性判定。检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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