

## 测试报告

No. CANML1920833702

日期: 2019 年 10 月 31 日 第1页, 共6页

深圳市铭朗纺织科技有限公司

深圳市龙岗区平湖街道凤凰社区永华街 1 号 2 栋三楼

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SGS 工作编号: SZIN1910015191PC - SZ  
 材质: 涤纶  
 规格: 25#  
 生产厂家: 深圳市铭朗纺织科技有限公司  
 样品接收日期: 2019 年 10 月 24 日  
 测试周期: 2019 年 10 月 24 日 - 2019 年 10 月 31 日  
 测试要求: 根据客户要求测试  
 测试方法: 请参见下一页  
 测试结果: 请参见下一页  
 测试结果概要:

测试要求	结论
EN 71-3:2019 - 可溶性元素含量(类别 III :可刮取的玩具材料)	符合
偶氮	符合
甲醛	见测试结果

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测试结果:

测试样品描述:

样品编号	SGS 样品 ID	描述
SN1	CAN19-208337.001	棕色线

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

### EN 71-3:2019 - 可溶性元素含量(类别 III :可刮取的玩具材料)

测试方法: 参考 EN 71-3:2019, 采用 ICP-OES 进行分析。  
六价铬用 IC-UV/LC-ICP-MS 进行分析。

测试项目	限值	单位	MDL	001
可溶性铝 (Al)	70000	mg/kg	50	ND
可溶性砷 (As)	47	mg/kg	10	ND
可溶性硼 (B)	15000	mg/kg	50	ND
可溶性钡 (Ba)	18750	mg/kg	50	ND
可溶性镉 (Cd)	17	mg/kg	5	ND
可溶性钴 (Co)	130	mg/kg	10	ND
可溶性三价铬 (CrIII)	460	mg/kg	5	ND
可溶性铜 (Cu)	7700	mg/kg	50	ND
可溶性汞 (Hg)	94	mg/kg	10	ND
可溶性锰 (Mn)	15000	mg/kg	50	ND
可溶性镍 (Ni)	930	mg/kg	10	ND
可溶性铅 (Pb)	23	mg/kg	10	ND
可溶性锑 (Sb)	560	mg/kg	10	ND
可溶性硒 (Se)	460	mg/kg	10	ND
可溶性锌 (Zn)	46000	mg/kg	50	ND
可溶性锶 (Sr)	56000	mg/kg	50	ND
可溶性锡 (Sn)	180000	mg/kg	4.9	ND
可溶性有机锡	12	mg/kg	-	ND
可溶性六价铬 (CrVI)	0.053	mg/kg	0.020	ND
评论				符合



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备注:

- 1 可溶性三价铬=可溶性总铬-可溶性六价铬
- 2.如果可溶性总锡的结果, 经过换算后不超过 EN 71-3:2019 规定的可溶性有机锡的要求, 则不要求做可溶性有机锡的确认性测试。

## 偶氮

测试方法: 参考 ISO 14362-1:2017, 采用 GC-MS/HPLC-DAD 进行分析。

确定 4-氨基偶氮苯 (CAS No.:60-09-3)参考 ISO 14362-3:2017, 采用 GC-MS/HPLC-DAD 进行分析。

测试项目	CAS No.	限值	单位	MDL	001 方法 A	001 方法 B
4-氨基联苯	92-67-1	30	mg/kg	5	ND	ND
联苯胺	92-87-5	30	mg/kg	5	ND	ND
4-氯邻甲苯	95-69-2	30	mg/kg	5	ND	ND
2-萘胺	91-59-8	30	mg/kg	5	ND	ND
邻氨基二甲基偶氮苯	97-56-3	30	mg/kg	5	ND	ND
2-氨基-4-硝基甲苯	99-55-8	30	mg/kg	5	ND	ND
对氯苯胺	106-47-8	30	mg/kg	5	ND	ND
2,4-二氨基苯甲醚	615-05-4	30	mg/kg	5	ND	ND
4,4'-二氨基二苯甲烷	101-77-9	30	mg/kg	5	ND	ND
3,3'-二氯联苯胺	91-94-1	30	mg/kg	5	ND	ND
3,3'-二甲氧基联苯胺	119-90-4	30	mg/kg	5	ND	ND
3,3'-二甲基联苯胺	119-93-7	30	mg/kg	5	ND	ND
3,3'-二甲基-4,4'-二氨基二苯甲烷	838-88-0	30	mg/kg	5	ND	ND
3-氨基对甲苯甲醚(p-克利酞)	120-71-8	30	mg/kg	5	ND	ND
4,4'-次甲基-双-(2-氯苯胺)	101-14-4	30	mg/kg	5	ND	ND
4,4'-二氨基二苯醚	101-80-4	30	mg/kg	5	ND	ND
4,4'-二氨基二苯硫醚	139-65-1	30	mg/kg	5	ND	ND
邻甲苯胺	95-53-4	30	mg/kg	5	ND	ND
2,4-二氨基甲苯	95-80-7	30	mg/kg	5	ND	ND
2,4,5-三甲苯胺	137-17-7	30	mg/kg	5	ND	ND
4-氨基偶氮苯	60-09-3	30	mg/kg	5	ND	ND
邻甲氧基苯胺	90-04-0	30	mg/kg	5	ND	ND
2,4-二甲基苯胺	95-68-1	30	mg/kg	5	ND	ND
2,6-二甲基苯胺	87-62-7	30	mg/kg	5	ND	ND
评论	-	-	-	-	符合	符合

注释:

- (1) 方法 A 表示直接还原法, 直接还原是指根据 ISO 14362-1:2017 条款 10.2 和相关条款提取和还原。方法 B 表



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示脱色提取法, 脱色提取是指根据 ISO 14362-1:2017 条款 10.1 和相关条款进行染料萃取和还原。

- (2) ISO 14362-1:2017 方法会使 4-氨基偶氮苯(CAS No.:60-09-3)在本实验条件下进一步裂解为非禁用的胺: 苯胺和 1,4-苯二胺, 因此, 采用 ISO 14362-3:2017 方法验证 4-氨基偶氮苯的存在。
- (3) 最大允许极限值引用自 1907/2006/EC Reach 附录 XVII 的修正指令——552/2009/EC 第 43 条(前身为 2002/61/EC)。

- (4) 4-氨基联苯(CAS No.:92-67-1), 2-萘胺(CAS No.:91-59-8), 2,4-二氨基苯甲醚(CAS No.:615-05-4)有检出时, 如果没有进一步的信息(如染料的化学结构)提供, 并不能确认使用了禁用的偶氮染料。

当样品中含有聚氨酯材料(如含 PU 泡沫、PU 涂层和 PU 胶印)时, 某些胺类, 若 4,4'-二氨基二苯甲烷(MDA, CAS No.:101-77-9)和 2,4-二氨基甲苯(TDA, CAS No.:95-80-7)有检出, 并不能确认其来自 PU 材料而非禁用偶氮染料。

当样品中含有胶印时, 若 4,4'-二氨基二苯甲烷(MDA, CAS No.:101-77-9)有检出, 需要注意该物质可能不是来源于禁用的偶氮染料, 而是来源于其它物料, 如化学固色剂。

## 甲醛

测试方法: 参考 ISO 14184-1:2011, 用 UV-Vis 分析。

测试项目	CAS NO.	单位	MDL	001
甲醛	50-00-0	mg/kg	16	ND

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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