

测试报告

No. CANML1810369702

日期: 2018年05月31日 第1页,共6页

深圳市铭朗纺织科技有限公司

深圳市平湖镇永华街1号2栋

以下测试之样品是由申请者所提供及确认: 聚酯纤维蜡线

SGS工作编号: SZIN1805006811PC - SZ

材质: 聚酯纤维

规格: M50

样品接收日期: 2018年05月28日

测试周期: 2018年05月28日 - 2018年05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

结论: 按客户要求对样品进行测试, 所提供样品的可溶性元素含量的测试结果不超过欧洲玩具安全标准EN 71-3:2013+A2:2017的限值。

符合

通标标准技术服务有限公司广州分公司

授权签名

许锋华

Luke Xu 许锋华

批准签署人



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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	CAN18-103697.001	米色线

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 检测极限值
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

EN 71-3:2013+A2:2017 - 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 71-3:2013+A2:2017, 采用 ICP-OES进行分析。

测试项目	限值	单位	MDL	001
可溶性铝(Al)	70,000	mg/kg	50	ND
可溶性锑(Sb)	560	mg/kg	10	ND
可溶性砷(As)	47	mg/kg	10	ND
可溶性钡(Ba)	18,750	mg/kg	50	ND
可溶性硼(B)	15,000	mg/kg	50	ND
可溶性镉(Cd)	17	mg/kg	5	ND
可溶性三价铬(Cr (III))	460	mg/kg	5	ND
可溶性六价铬(Cr (VI))	0.2	mg/kg	0.18	ND
可溶性钴(Co)	130	mg/kg	10	ND
可溶性铜(Cu)	7,700	mg/kg	50	ND
可溶性铅(Pb)	160	mg/kg	10	ND
可溶性锰(Mn)	15,000	mg/kg	50	ND
可溶性汞(Hg)	94	mg/kg	10	ND
可溶性镍(Ni)	930	mg/kg	10	ND
可溶性有机锡	12	mg/kg	-	ND
可溶性硒(Se)	460	mg/kg	10	ND
可溶性锶(Sr)	56,000	mg/kg	50	ND
可溶性锡(Sn)	180,000	mg/kg	4.9	ND
可溶性锌(Zn)	46,000	mg/kg	50	ND

备注:



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- 1 可溶性三价铬=可溶性总铬-可溶性六价铬
- 2.如果可溶性总铬的结果, 不超过EN 71-3:2013+A2:2017规定的可溶性三价铬和可溶性六价铬的要求, 则不要要求做可溶性三价铬和可溶性六价铬的确认性测试。
- 3.如果可溶性总锡的结果, 经过换算后不超过EN 71-3:2013+A2:2017规定的可溶性有机锡的要求, 则不要要求做可溶性有机锡的确认性测试。

甲醛

测试方法: 参考GB/T 2912.1-2009, 用UV-Vis分析。

测试项目

游离和水解甲醛

单位	MDL	001
mg/kg	20	ND

偶氮

测试方法: 参照BS EN 14362-1:2012, 采用GC-MS/HPLC-DAD进行分析, 确定4-氨基偶氮苯(CAS No.:60 09 3) -EN14362-3:2012, 采用GC-MS进行分析。

测试项目	CAS NO.	限值	单位	MDL	001
4-氨基联苯	92-67-1	30	mg/kg	5	ND
联苯胺	92-87-5	30	mg/kg	5	ND
4-氯邻甲苯	95-69-2	30	mg/kg	5	ND
2-萘胺	91-59-8	30	mg/kg	5	ND
邻氨基二甲基偶氮苯	97-56-3	30	mg/kg	5	ND
2-氨基-4-硝基甲苯	99-55-8	30	mg/kg	5	ND
对氯苯胺	106-47-8	30	mg/kg	5	ND



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测试项目	CAS NO.	限值	单位	MDL	001
2,4-二氨基苯甲醚	615-05-4	30	mg/kg	5	ND
4,4'-二氨基二苯甲烷	101-77-9	30	mg/kg	5	ND
3,3'-二氯联苯胺	91-94-1	30	mg/kg	5	ND
3,3'-二甲氧基联苯胺	119-90-4	30	mg/kg	5	ND
3,3'-二甲基联苯胺	119-93-7	30	mg/kg	5	ND
3,3'-二甲基-4,4'-二氨基二苯甲烷	838-88-0	30	mg/kg	5	ND
3-氨基对甲苯甲醚(p-克利酐)	120-71-8	30	mg/kg	5	ND
4,4'-次甲基-双-(2-氯苯胺)	101-14-4	30	mg/kg	5	ND
4,4'-二氨基二苯醚	101-80-4	30	mg/kg	5	ND
4,4'-二氨基二苯硫醚	139-65-1	30	mg/kg	5	ND
邻甲苯胺	95-53-4	30	mg/kg	5	ND
2,4-二氨基甲苯	95-80-7	30	mg/kg	5	ND
2,4,5-三甲苯胺	137-17-7	30	mg/kg	5	ND
4-氨基偶氮苯	60-09-3	30	mg/kg	5	ND



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测试项目	CAS NO.	限值	单位	MDL	001
邻甲氧基苯胺	90-04-0	30	mg/kg	5	ND
2,4-二甲基苯胺	95-68-1	30	mg/kg	5	ND
2,6-二甲基苯胺	87-62-7	30	mg/kg	5	ND

评论

符合

备注:

(1)BS EN 14362-1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EN14362-3:2012方法验证4 氨基偶氮苯的存在.

(2)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 氨基联苯(CAS No. 92-67-1), 2 萘胺(CAS number 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.



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