

测试报告

No. SHAHG1403675502

日期: 2014年03月19日 第1页,共6页

黄山加佳荧光材料有限公司
安徽省黄山市歙县循环经济园区纬一路8号

以下测试之样品是由申请者所提供及确认: HX(HP/LG/HT/LX/HA/LNT/HFT/H-1000 荧光颜料

SGS工作编号: SHHG1403006413SD - SH
 款号: HX(HP/LG/HT/LX/HA/LNT/HFT/H-1000 荧光颜料
 样品接收日期: 2014年03月12日
 测试周期: 2014年03月12日 - 2014年03月19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 |
|--|-------|
| 欧盟玩具指令2009/48/EC协调标准 EN71-3:2013- 元素迁移 (针对干燥、易碎、粉状或易弯曲的玩具材料) | 见测试结果 |
| 偶氮染料 | 见测试结果 |
| 多环芳香烃(PAH) | 见测试结果 |

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Serena Wang 王璟
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测试报告

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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 | SHA14-036755.001 | 红色粉末 |

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

欧盟玩具指令2009/48/EC协调标准 EN71-3:2013- 元素迁移 (针对干燥、易碎、粉状或易弯曲的玩具材料)

测试方法: 参照EN 71-3:2013, 采用ICP-MS进行分析.

可溶性六价铬采用IC-UV 或LC-ICP-MS进行分析.

| 测试项目 | 限值 | 单位 | MDL | 001 |
|----------------|-------|-------|-------|-----|
| 可溶性六价铬 (CrVI) | 0.02 | mg/kg | 0.018 | ND |
| 可溶性铅 (Pb) | 13.5 | mg/kg | 0.5 | ND |
| 可溶性锑 (Sb) | 45 | mg/kg | 1 | ND |
| 可溶性砷 (As) | 3.8 | mg/kg | 0.5 | ND |
| 可溶性钡 (Ba) | 1500 | mg/kg | 50 | ND |
| 可溶性镉 (Cd) | 1.3 | mg/kg | 0.1 | ND |
| 可溶性三价铬 (CrIII) | 37.5 | mg/kg | 5 | ND |
| 可溶性汞 (Hg) | 7.5 | mg/kg | 0.5 | ND |
| 可溶性硒 (Se) | 37.5 | mg/kg | 5 | ND |
| 可溶性硼 (B) | 1200 | mg/kg | 50 | ND |
| 可溶性钴 (Co) | 10.5 | mg/kg | 0.5 | ND |
| 可溶性锰 (Mn) | 1200 | mg/kg | 50 | ND |
| 可溶性锶 (Sr) | 4500 | mg/kg | 50 | ND |
| 可溶性锡 (Sn) | 15000 | mg/kg | 0.36 | ND |
| 可溶性锌 (Zn) | 3750 | mg/kg | 50 | ND |
| 可溶性铜 (Cu) | 622.5 | mg/kg | 50 | ND |
| 可溶性铝 (Al) | 5625 | mg/kg | 50 | ND |
| 可溶性镍 (Ni) | 75 | mg/kg | 10 | ND |
| 可溶性有机锡(以锡计) * | 0.9 | mg/kg | 0.36 | ND |

备注:

- (1) *可溶性锡转化为可溶性有机锡后的含量没有超过 EN71-3: 2013中相应限量, 根据EN 71-3: 2013的要



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求, 不需要额外测试可溶性有机锡的含量。

偶氮染料

测试方法: 参考EN 14362-1:2012 - 使用GC-MS / HPLC-DAD 测定纤维中含有需萃取分析的某些偶氮色剂。

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

结论

**

备注:

- (1) EN 14362-1:2012 方法使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:苯胺或1,4-苯二胺. 如果如果经上述测试方法没有检出苯胺和/或1,4-苯二胺(i.e. <5mg/kg), 则认为 4-氨基偶氮苯(CAS No:60-09-3) “未检出” (i.e. <5mg/kg). 否则, 将采用EN 14362-3:2012 方法验证4-氨基偶氮苯的存在.
- (2) ** =对于纺织品, 要求相关苯胺含量不超过30mg/kg, 此测试方法仅适用于纺织品, 测试结果仅供客户参考.



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参考.

- (3) 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.
- (4) 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.
- (5) 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.

多环芳香烃(PAH)

测试方法: 参照ZEK-01.4-08及其后续指令, 采用 GC-MS进行分析.

| 测试项目 | 单位 | MDL | 001 |
|-------------------------------|-------|-----|-----|
| 18项多环芳香烃总和 | mg/kg | - | ND |
| 萘 (NAP) | mg/kg | 0.2 | ND |
| 苊烯 (ANY) | mg/kg | 0.2 | ND |
| 苊 (萘嵌戊烷) (ANA) | mg/kg | 0.2 | ND |
| 芴 (FLU) | mg/kg | 0.2 | ND |
| 菲 (PHE) | mg/kg | 0.2 | ND |
| 蒽 (ANT) | mg/kg | 0.2 | ND |
| 荧蒽 (FLT) | mg/kg | 0.2 | ND |
| 芘 (PYR) | mg/kg | 0.2 | ND |
| 苯并(a)蒽 (BaA) | mg/kg | 0.2 | ND |
| 屈 (CHR) | mg/kg | 0.2 | ND |
| 苯并(b)荧蒽 (BbF) 和 苯并(j)荧蒽 (BjF) | mg/kg | 0.4 | ND |
| 苯并(k)荧蒽 (BkF) | mg/kg | 0.2 | ND |
| 苯并(a)芘 (BaP) | mg/kg | 0.2 | ND |
| 苯并(e)芘 (BeP) | mg/kg | 0.2 | ND |
| 茚并(1,2,3-c,d)芘 (IPY) | mg/kg | 0.2 | ND |
| 二苯并(a,h)蒽 (DBA) | mg/kg | 0.2 | ND |
| 苯并(g,h,i)芘(二萘嵌苯) (BPE) | mg/kg | 0.2 | ND |



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ZEK.01.4.08:产品最大控制值

| 参数 | 1类 | 2类 | 3类 |
|-------------------|-------------------------------------|---------------------------------------|---|
| | 设计意图为放入口中的材料,以及36个月以下幼儿的玩具上与皮肤接触的材料 | 未在1类规定中涵盖的材料,且可能与皮肤长期接触的材料(接触时间大于30秒) | 未在1和2类规定中涵盖的材料,且可能与皮肤短期接触的材料(接触时间小于等于30秒) |
| BaP含量 (mg/kg) | < 0.2** | 1 | 20 |
| 18种 PAH总量(mg/kg)* | < 0.2** | 10 | 200 |

备注:

*= 仅物质浓度大于0.2ppm时才用于计算18项PAHs总量

**= 若设计意图为放入口中的材料的测试结果大于1类限值但不超过2类限值,需再依据DIN EN 1186ff/EN13130及§ 64 LFGB 80.30-1进行PAH的迁移性测试并根据相关食品法规进行判定.

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