

## 测试报告

No. NGBHG1703632804 A01

日期: 2017年10月31日 第1页,共6页

宁波市斯达纳绳网有限公司  
中国浙江余姚市三七市

此报告替代原来编号为NGBHG1703632802日期为2017/07/26的报告

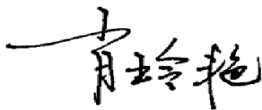
以下测试之样品是由申请者所提供及确认: 联合绳

SGS工作编号: NBHL1707011787SD - NB  
 款号: SDN02-1  
 样品接收日期: 2017年07月19日  
 测试周期: 2017年07月19日 - 2017年07月26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    |
|-------------|-------|
| 阻燃剂含量       | 见测试结果 |
| 多环芳香烃(PAHs) | 见测试结果 |
| 元素          | 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  | NGB17-036328.001 | 灰色绳子部分 |
| SN2  | NGB17-036328.002 | 银色金属部分 |

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

### 阻燃剂含量

测试方法: 参考US EPA 方法 3550C:2007和US EPA方法 8270D: 2014, 采用GC-MS分析.

| 测试项目               | CAS NO.    | 单位    | MDL | 001 |
|--------------------|------------|-------|-----|-----|
| 五溴联苯醚 (Penta-BDEs) | 32534-81-9 | mg/kg | 5   | ND  |
| 八溴联苯醚 (Octa-BDEs)  | 32536-52-0 | mg/kg | 5   | ND  |

| 测试项目               | CAS NO.    | 单位    | MDL | 002 |
|--------------------|------------|-------|-----|-----|
| 五溴联苯醚 (Penta-BDEs) | 32534-81-9 | mg/kg | 5   | ND  |
| 八溴联苯醚 (Octa-BDEs)  | 32536-52-0 | mg/kg | 5   | ND  |

### 多环芳香烃(PAHs)

测试方法: 参考AfPS GS 2014:01 PAK方法测试, 采用 GC-MS进行分析.

| 测试项目         | 单位    | MDL | 001 |
|--------------|-------|-----|-----|
| 萘(ANY)       | mg/kg | 0.1 | ND  |
| 芘(蒽嵌戊烷)(ANA) | mg/kg | 0.1 | ND  |
| 芴(FLU)       | mg/kg | 0.1 | ND  |
| 菲(PHE)       | mg/kg | 0.1 | ND  |
| 蒽(ANT)       | mg/kg | 0.1 | ND  |
| 荧蒽(FLT)      | mg/kg | 0.1 | ND  |
| 芘(PYR)       | mg/kg | 0.1 | ND  |
| 苯并(a)芘 (BaP) | mg/kg | 0.1 | ND  |
| 苯并(e)芘(BeP)  | mg/kg | 0.1 | ND  |
| 苯并(a)蒽(BaA)  | mg/kg | 0.1 | ND  |



SGS-CSSTC 宁波分公司  
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| 测试项目  | 单位    | MDL | 001 |
|---|-------|-----|-----|
| 苯并(b)荧蒽(BbF)  | mg/kg | 0.1 | ND  |
| 苯并(j)荧蒽(BjF)  | mg/kg | 0.1 | ND  |
| 苯并(k)荧蒽(BkF)  | mg/kg | 0.1 | ND  |
| 屈(CHR)  | mg/kg | 0.1 | ND  |
| 二苯并(a,h)蒽(DBA)  | mg/kg | 0.1 | ND  |
| 苯并(g,h,i)花(二萘嵌苯)(BPE)   | mg/kg | 0.1 | ND  |
| 茚苯(1,2,3-c,d)芘(IPY)   | mg/kg | 0.1 | ND  |
| 7项多环芳香烃总和[苊烯(ANY), 苊(萘嵌戊烷)(ANA), 芴(FLU), 菲(PHE), 芘(PYR), 蒽(ANT), 荧蒽(FLT)] | mg/kg | -   | ND  |
| 萘(NAP)  | mg/kg | 0.1 | 1.6 |
| 18项多环芳香烃总和  | mg/kg | -   | 1.6 |

| 测试项目  | 单位    | MDL | 002 |
|---|-------|-----|-----|
| 苊烯(ANY)   | mg/kg | 0.1 | ND  |
| 苊(萘嵌戊烷)(ANA)  | mg/kg | 0.1 | ND  |
| 芴(FLU)  | mg/kg | 0.1 | ND  |
| 菲(PHE)  | mg/kg | 0.1 | ND  |
| 蒽(ANT)  | mg/kg | 0.1 | ND  |
| 荧蒽(FLT)   | mg/kg | 0.1 | ND  |
| 芘(PYR)  | mg/kg | 0.1 | ND  |
| 苯并(a)芘(BaP)   | mg/kg | 0.1 | ND  |
| 苯并(e)芘(BeP)   | mg/kg | 0.1 | ND  |
| 苯并(a)蒽(BaA)   | mg/kg | 0.1 | ND  |
| 苯并(b)荧蒽(BbF)  | mg/kg | 0.1 | ND  |
| 苯并(j)荧蒽(BjF)  | mg/kg | 0.1 | ND  |
| 苯并(k)荧蒽(BkF)  | mg/kg | 0.1 | ND  |
| 屈(CHR)  | mg/kg | 0.1 | ND  |
| 二苯并(a,h)蒽(DBA)  | mg/kg | 0.1 | ND  |
| 苯并(g,h,i)花(二萘嵌苯)(BPE)   | mg/kg | 0.1 | ND  |
| 茚苯(1,2,3-c,d)芘(IPY)   | mg/kg | 0.1 | ND  |
| 7项多环芳香烃总和[苊烯(ANY), 苊(萘嵌戊烷)(ANA), 芴(FLU), 菲(PHE), 芘(PYR), 蒽(ANT), 荧蒽(FLT)] | mg/kg | -   | ND  |
| 萘(NAP)  | mg/kg | 0.1 | ND  |
| 18项多环芳香烃总和  | mg/kg | -   | ND  |



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**AFPS(德国产品安全委员会):GS认证对多环芳香烃的要求**

| 参数   | 1类                                   | 2类  |              | 3类                                       |              |
|--|--------------------------------------|---|--------------|--|--------------|
|  | 设计意图为放入口中的材料或者玩具上与皮肤接触的材料(接触时间大于30秒) | 未在1类规定中涵盖的材料,且可能与皮肤接触时间大于30秒的材料(长时间接触皮肤)或频繁接触皮肤 |              | 未在1和2类规定中涵盖的材料,且可能与皮肤接触的少于30秒的材料(短期接触皮肤) |              |
|  |                                      | 2009/48/EC中适用的玩具                                | 产品安全法涉及的其他产品 | 2009/48/EC中适用的玩具                         | 产品安全法涉及的其他产品 |
| 苯并(a)芘 (BaP) mg/kg   | <0.2                                 | <0.2  | <0.5         | <0.5                                     | <1           |
| 苯并(e)芘 (BeP) mg/kg   | <0.2                                 | <0.2  | <0.5         | <0.5                                     | <1           |
| 苯并(a)蒽 (BaA) mg/kg   | <0.2                                 | <0.2  | <0.5         | <0.5                                     | <1           |
| 苯并(b)荧蒽 (BbF) mg/kg  | <0.2                                 | <0.2  | <0.5         | <0.5                                     | <1           |
| 苯并(j)荧蒽 (BjF) mg/kg  | <0.2                                 | <0.2  | <0.5         | <0.5                                     | <1           |
| 苯并(k)荧蒽 mg/kg  | <0.2                                 | <0.2  | <0.5         | <0.5                                     | <1           |
| 屈 (CHR) mg/kg  | <0.2                                 | <0.2  | <0.5         | <0.5                                     | <1           |
| 二苯并(a,h)蒽 (DBA)mg/kg   | <0.2                                 | <0.2  | <0.5         | <0.5                                     | <1           |
| 苯并(g,h,i)花(二萘嵌苯) (BPE)n mg/kg  | <0.2                                 | <0.2  | <0.5         | <0.5                                     | <1           |
| 茚苯(1,2,3-c,d)芘 (IPY) mg/kg   | <0.2                                 | <0.2  | <0.5         | <0.5                                     | <1           |
| 萘烯(ANY), 萘(萘嵌戊烷) (ANA), 芴 (FLU), 菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)之和 mg/kg | <1 (总和)                              | <5 (总和)   | <10 (总和)     | <20 (总和)                                 | <50 (总和)     |
| 萘 (NAP) mg/kg  | <1                                   | <2  |              | <10                                      |              |
| 18 PAH之和   | <1                                   | <5  | <10          | <20                                      | <50          |

**元素**

测试方法: 参照US EPA 方法3050B:1996测定, 采用ICP-OES进行分析

**测试项目**

镉(Cd)

单位 MDL 002  
mg/kg 5 ND

汞(Hg)

mg/kg 2 3



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### 元素

测试方法: 参照US EPA 方法3052:1996测定, 采用ICP-OES进行分析.

| 测试项目  | 单位    | MDL | 001 |
|-------|-------|-----|-----|
| 铅(Pb) | mg/kg | 5   | ND  |
| 镉(Cd) | mg/kg | 5   | ND  |
| 汞(Hg) | mg/kg | 2   | 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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