

测试报告

No. CANML1802091602

日期: 2018年02月02日 第1页,共9页

永康市晨喜塑胶制品有限公司

中国浙江省永康市方岩镇派溪工业区金兔大道58号

以下测试之样品是由申请者所提供及确认: 轮芯

SGS工作编号: GZIN1801004870PC - GZ

样品接收日期: 2018年01月26日

测试周期: 2018年01月26日 - 2018年02月01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。

通标标准技术服务有限公司广州分公司
授权签名

杨谷毅

Echo Yeung杨谷毅
批准签署人

备注: 本报告是编号为CANML1802091601报告的中文版本。



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日期: 2018年02月02日 第2页,共9页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN18-020916.001	蓝色塑料

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, 则不要做可溶性有机锡的确认性测试。

美国材料与试验协会-ASTM F 963-16 – 基材中的总铅含量

测试方法: 参考CPSC-CH-E1002-08.3, 采用ICP-OES分析。

测试项目	限值	单位	MDL	001
总铅 (Pb)	100	mg/kg	20	ND

ASTM F 963-16 (目录 4.3.5) & EN 71 Part 3:1994 + A1:2000+ AC:2002可溶性重金属含量

测试方法: 参考ASTM F 963-16 (目录8.3)& EN 71 Part 3:1994 + A1:2000+ AC:2002, 采用ICP-OES进行分析。

测试项目	限值	单位	MDL	001
可溶性铅(Pb)	90	mg/kg	5	ND
可溶性锑(Sb)	60	mg/kg	5	ND
可溶性砷(As)	25	mg/kg	2.5	ND
可溶性钡(Ba)	1,000	mg/kg	10	ND
可溶性镉(Cd)	75	mg/kg	5	ND
可溶性铬(Cr)	60	mg/kg	5	ND
可溶性汞(Hg)	60	mg/kg	5	ND
可溶性硒(Se)	500	mg/kg	10	ND

备注:

(1) 所示可溶性元素结果为调整后结果。

多环芳香烃(PAHs)

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

测试项目	CAS NO.	单位	MDL	001
萘 (NAP)	91-20-3	mg/kg	0.1	ND
蒽(ANY)	208-96-8	mg/kg	0.1	ND



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测试项目	CAS NO.	单位	MDL	001
蒎(萘嵌戊烷) (ANA)	83-32-9	mg/kg	0.1	ND
蒎 (FLU)	86-73-7	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
蒽 (ANT)	120-12-7	mg/kg	0.1	ND
荧蒽 (FLT)	206-44-0	mg/kg	0.1	ND
芘 (PYR)	129-00-0	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.1	ND
屈 (CHR)	218-01-9	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	205-99-2	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	205-82-3	mg/kg	0.1	ND
苯并(k)荧蒽 (BkF)	207-08-9	mg/kg	0.1	ND
苯并(a)芘 (BaP)	50-32-8	mg/kg	0.1	ND
苯并(e)芘 (BeP)	192-97-2	mg/kg	0.1	ND
茚并(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	53-70-3	mg/kg	0.1	ND
苯并(g,h,i)芘(二萘嵌苯) (BPE)	191-24-2	mg/kg	0.1	ND
7项多环芳香烃总和[蒎烯(ANY), 蒎(萘嵌戊烷) (ANA), 蒎 (FLU), 菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)]		mg/kg	-	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(二苯并苯)(BPE)n mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚并(1,2,3-c,d)芘 (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
萘烯(ANY), 萘(蒽嵌戊烷)(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

邻苯二甲酸盐(或酯)

测试方法: 参考EN 14372: 2004的方法测定, 采用GC-MS进行分析。

测试项目	CAS NO.	单位	MDL	001
邻苯二甲酸二丁酯 (DBP)	84-74-2	%(w/w)	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%(w/w)	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%(w/w)	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.010	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%(w/w)	0.003	ND



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测试项目	CAS NO.	单位	MDL	001
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.010	ND
邻苯二甲酸二甲酯 (DMP)	131-11-3	%(w/w)	0.003	ND
邻苯二甲酸二乙酯 (DEP)	84-66-2	%(w/w)	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%(w/w)	0.003	ND
邻苯二甲酸二壬酯 (DNP)	84-76-4	%(w/w)	0.003	ND
邻苯二甲酸二异辛酯 (DIOP)	27554-26-3	%(w/w)	0.010	ND
邻苯二甲酸二丙酯 (DPrP)	131-16-8	%(w/w)	0.003	ND
邻苯二甲酸二环己酯 (DCHP)	84-61-7	%(w/w)	0.003	ND
邻苯二甲酸二正戊酯 (DnPP)	131-18-0	%(w/w)	0.003	ND
邻苯二甲酸二苄酯 (DBzP)	523-31-9	%(w/w)	0.003	ND
邻苯二甲酸二苯酯 (DPhP)	84-62-8	%(w/w)	0.003	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%(w/w)	0.003	ND

备注:

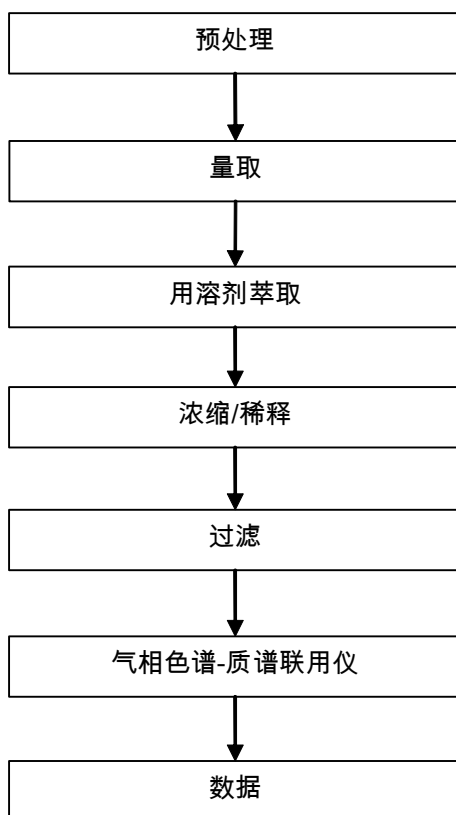
- (1) DBP, BBP, DEHP参考信息: 1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第51条 (前身为2005/84/EC) 的要求:
 - i) 不允许DBP, BBP, DEHP质量浓度高于0.1%的可塑性物料用于玩具和儿童护理品.
 - ii) 当玩具和儿童护理品中的可塑性物料含DBP, BBP, DEHP质量浓度高于0.1%时,不得投放市场. 详细信息请参见Regulation (EC) No 552/2009
- (2) DINP, DNOP, DIDP参考信息: 1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第52条 (前身为2005/84/EC) 的要求:
 - i) 不允许DINP, DNOP, DIDP质量浓度高于0.1%的可塑性物料用于可放入儿童口中的玩具和儿童护理品.
 - ii) 当可放入儿童口中的玩具和儿童护理品中的可塑性物料含DINP, DNOP, DIDP质量浓度高于0.1%时,不得投放市场. 详细信息请参见Regulation (EC) No 552/2009.



附件

PAHs 测试流程图

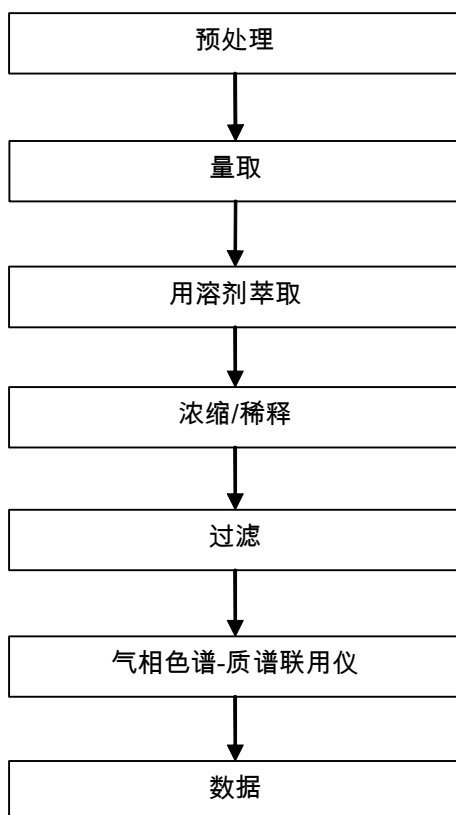
- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



附件

Phthalates 测试流程图

- 1) 分析人员: 胡香云
2) 项目负责人: 刘琼



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