



测试报告

No. SHAMPLP1915801301

日期: 2019年07月27日 第1页,共15页

上海海外化工有限公司
上海市金山区漕泾镇展业路58号

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SGS工作编号: SHIN1 07035242PC - SH
材质牌号: GH030
买家: 上海海外化工有限公司
制造商: 日本住友化学
样品接收日期: 2019年07月18日
测试周期: 2019年07月18日 - 2019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

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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	SHA19-158013.001	半透明固体颗粒

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

RoHS 指令2011/65/EU附录II的修正指令(EU) 2015/863

- 测试方法:
- (1) 参考IEC 62321-5:2013, 用ICP-OES测定镉的含量
 - (2) 参考IEC 62321-5:2013, 用ICP-OES测定铅的含量
 - (3) 参考IEC 62321-4:2013, 用ICP-OES测定汞的含量
 - (4) 参考IEC 62321:2008, 用紫外-可见分光光度计比色法测定六价铬的含量
 - (5) 参考IEC 62321-6:2015, 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚)的含量

测试项目	限值	单位	MDL	001
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞(Hg)	1000	mg/kg	2	ND
六价铬(CrVI)	1000	mg/kg	2	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND



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测试项目	限值	单位	MDL	001
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND

备注:

- (1) 最大允许限值引用自RoHS指令(EU) 2015/863。
- (2) 2015年6月4号发表在欧盟官方杂志(官方公报)上的RoHS指令(EU) 2015/863附录II限值中还包括邻苯二甲酸酯BBP, DBP, DEHP和DIBP。新的指令限制了电子电器产品的每一个均一材质中邻苯二甲酸酯含量不得超过0.1%。
- (3) 2021年7月22号开始, DEHP, BBP, DBP 和 DIBP的限制适用于医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。
- (4) DEHP, BBP, DBP 和 DIBP的限制不适用于2019年7月22日前投放市场的电缆及电子电气产品中用于维修、重复利用、功能更新及容量提升的备用配件以及2021年7月22日前投放市场的医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。
- (5) DEHP、BBP 和 DBP的限制不适用于玩具产品, 因为No.1907/2006附录XVII第51条已对玩具产品中的DEHP、BBP 和 DBP含量进行了限制。

欧洲委员会指令94/62/EC-11款

测试方法: 参照 SHTC-CHEM-SOP-10-T 方法测试. 采用ICP-OES分析镉,铅,汞含量,采用UV-Vis分析六价铬含量.

测试项目	限值	单位	MDL	001
铅 (Pb)	-	mg/kg	5	ND
六价铬 (CrVI)	-	mg/kg	5	ND
镉 (Cd)	-	mg/kg	5	ND
汞 (Hg)	-	mg/kg	5	ND
总量 (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	ND

壬基酚聚氧乙烯醚(NPEOs), 壬基酚 (NP)

测试方法: 溶剂萃取, 采用HPLC-MS进行分析.



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测试项目	单位	MDL	001
壬基酚(NP)	mg/kg	10	ND
壬基酚聚氧乙烯醚(NPEOs)	mg/kg	30	ND

备注:

(1) NP和NPEOs参考信息:1907/2006/EC Reach 附录XVII的修正指令——552/2009/EC第46条(前身为2003/53/EC):当用于下属用途时,不允许NP、NPEOs质量浓度等于或高于0.1%的物料或者配置品投放市场:工业和公共机构清洁,家用清洗,纺织品和皮革加工,农用动物乳房清洗/浸润剂的乳化剂,金属加工,纸浆和纸张的制造,化妆品,其他个人护理用品和杀虫剂和生物农药中的复合赋形剂
 详细信息请参见Regulation (EC) No 552/2009

有机锡化合物

测试方法: 参照ISO 17353: 2004 方法测定, 使用二乙基二硫代氨基甲基钠,采用 GC-MS进行分析.

测试项目	单位	MDL	001
单丁基锡 (MBT)	mg/kg	0.02	ND
二丁基锡(DBT)	mg/kg	0.02	ND
三丁基锡 (TBT)	mg/kg	0.02	ND
单辛基锡 (MOT)	mg/kg	0.02	ND
四丁基锡 (TeBT)	mg/kg	0.02	ND
二辛基锡 (DOT)	mg/kg	0.02	ND
三环己基氯化锡 (TCyT)	mg/kg	0.02	ND
三丙基锡 (TPT)	mg/kg	0.02	ND
三辛基锡(TOT)	mg/kg	0.02	ND
三丙基锡 (TPT)	mg/kg	0.02	ND

多氯萘(PCNs)

测试方法: 参照US EPA 8081B: 2007 方法测定, 采用GC-MS进行分析.

测试项目	单位	MDL	001
2-氯萘	mg/kg	5	ND
1,4-二氯萘	mg/kg	5	ND
1,5-二氯萘	mg/kg	5	ND
1,2-二氯萘	mg/kg	5	ND
1,8-二氯萘	mg/kg	5	ND
1,2,3-三氯萘	mg/kg	5	ND
1,2,3,4-四氯萘	mg/kg	5	ND



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测试项目	单位	MDL	001
1,2,3,4,6-五氯苯	mg/kg	5	ND
八氯苯	mg/kg	5	ND
1-氯苯	mg/kg	5	ND

臭氧破坏物质(ODS)

测试方法: 参照 US EPA 5021A-2003 方法测定, 采用GC-MS进行分析.

测试项目	CAS NO.	单位	MDL	001
CFC				
CFC-11	75-69-4	µg/g	0.1	ND
CFC-12	75-71-8	µg/g	0.1	ND
CFC-113	76-13-1	µg/g	0.1	ND
CFC-114	76-14-2	µg/g	0.1	ND
CFC-13	75-72-9	µg/g	0.1	ND
CFC-111	354-56-3	µg/g	0.1	ND
CFC-112	76-11-9	µg/g	0.1	ND
CFC-112	76-12-0	µg/g	0.1	ND
CFC-113	354-58-5	µg/g	0.1	ND
CFC-114	374-07-2	µg/g	0.1	ND
CFC-115	76-15-3	µg/g	0.1	ND
CFC-211	422-78-6	µg/g	0.1	ND
CFC-212	661-96-1	µg/g	0.1	ND
CFC-213	1652-89-7	µg/g	0.1	ND
CFC-214	677-68-9	µg/g	0.1	ND
CFC-215	1599-41-3	µg/g	0.1	ND
CFC-215	76-17-5	µg/g	0.1	ND
CFC-216	661-97-2	µg/g	0.1	ND
CFC-216	1652-80-8	µg/g	0.1	ND
CFC-217	422-86-6	µg/g	0.1	ND
HCFC				
HCFC-21	75-43-4	µg/g	0.1	ND
HCFC-22	75-45-6	µg/g	0.1	ND
HCFC-123	306-83-2	µg/g	0.1	ND
HCFC-124	2837-89-0	µg/g	0.1	ND
HCFC-141b	1717-00-6	µg/g	0.1	ND
HCFC-142b	75-68-3	µg/g	0.1	ND
HCFC-31	593-70-4	µg/g	0.1	ND



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日期: 2019年07月27日 第6页,共15页

测试项目	CAS NO.	单位	MDL	001
HCFC-121	354-14-3	µg/g	0.1	ND
HCFC-122	354-21-2	µg/g	0.1	ND
HCFC-123a	354-23-4	µg/g	0.1	ND
HCFC-124a	354-25-6	µg/g	0.1	ND
HCFC-131	359-28-4	µg/g	0.1	ND
HCFC-131a	811-95-0	µg/g	0.1	ND
HCFC-132a	471-43-2	µg/g	0.1	ND
HCFC-132b	1649-08-7	µg/g	0.1	ND
HCFC-133a	75-88-7	µg/g	0.1	ND
HCFC-221	422-26-4	µg/g	0.1	ND
HCFC-222	422-30-0	µg/g	0.1	ND
HCFC-223	422-52-6	µg/g	0.1	ND
HCFC-225ca	422-56-0	µg/g	0.1	ND
HCFC-225cb	507-55-1	µg/g	0.1	ND
HCFC-226	431-87-8	µg/g	0.1	ND
HCFC-231	421-94-3	µg/g	0.1	ND
HCFC-232	460-89-9	µg/g	0.1	ND
HCFC-233	7125-84-0	µg/g	0.1	ND
HCFC-234	425-94-5	µg/g	0.1	ND
HCFC-235	460-92-4	µg/g	0.1	ND
HCFC-241	666-27-3	µg/g	0.1	ND
HCFC-242	460-63-9	µg/g	0.1	ND
HCFC-243	338-75-0	µg/g	0.1	ND
HCFC-244	679-85-6	µg/g	0.1	ND
HCFC-251	421-41-0	µg/g	0.1	ND
HCFC-252	819-00-1	µg/g	0.1	ND
HCFC-253	460-35-5	µg/g	0.1	ND
HCFC-261	7799-56-6	µg/g	0.1	ND
HCFC-261	420-97-3	µg/g	0.1	ND
HCFC-271	430-55-7	µg/g	0.1	ND
HCFC-262	102738-79-4	µg/g	0.1	ND
HCFC-262	420-99-5	µg/g	0.1	ND
Halon				
Halon 1211	353-59-3	µg/g	0.1	ND
Halon 1301	75-63-8	µg/g	0.1	ND
Halon 2402	124-73-2	µg/g	0.1	ND
HBFC				
CHF2Br	1511-62-2	µg/g	0.1	ND
CH2FBr	373-52-4	µg/g	0.1	ND
C ₂ HFBr ₄		µg/g	0.1	ND



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测试项目	CAS NO.	单位	MDL	001
C ₂ HF ₂ Br ₃		µg/g	0.1	ND
C ₂ HF ₃ Br ₂	354-04-1	µg/g	0.1	ND
C ₂ HF ₄ Br		µg/g	0.1	ND
C ₂ H ₂ FBr ₃		µg/g	0.1	ND
C ₂ H ₂ F ₂ Br ₂	75-82-1	µg/g	0.1	ND
C ₂ H ₂ F ₃ Br	421-06-7	µg/g	0.1	ND
C ₂ H ₃ FBr ₂		µg/g	0.1	ND
C ₂ H ₃ F ₂ Br	359-07-9	µg/g	0.1	ND
C ₂ H ₄ FBr	762-49-2	µg/g	0.1	ND
C ₃ HFBr ₅		µg/g	0.1	ND
C ₃ HF ₂ Br ₄		µg/g	0.1	ND
C ₃ HF ₃ Br ₃		µg/g	0.1	ND
C ₃ HF ₄ Br ₂		µg/g	0.1	ND
C ₃ HF ₅ Br		µg/g	0.1	ND
C ₃ H ₂ FBr ₄		µg/g	0.1	ND
C ₃ H ₂ F ₂ Br ₃		µg/g	0.1	ND
C ₃ H ₂ F ₃ Br ₂		µg/g	0.1	ND
C ₃ H ₂ F ₄ Br		µg/g	0.1	ND
C ₃ H ₃ FBr ₃		µg/g	0.1	ND
C ₃ H ₃ F ₂ Br ₂		µg/g	0.1	ND
C ₃ H ₃ F ₃ Br		µg/g	0.1	ND
C ₃ H ₃ F ₄ Br		µg/g	0.1	ND
C ₃ H ₄ FBr ₂		µg/g	0.1	ND
C ₃ H ₄ F ₂ Br		µg/g	0.1	ND
C ₃ H ₄ F ₃ Br		µg/g	0.1	ND
C ₃ H ₅ FBr		µg/g	0.1	ND
C ₃ H ₅ F ₂ Br		µg/g	0.1	ND
C ₃ H ₅ F ₃ Br		µg/g	0.1	ND
C ₃ H ₆ FBr		µg/g	0.1	ND
Others				
二溴氟甲烷	1868-53-7	µg/g	0.1	ND
一溴甲烷	74-83-9	µg/g	0.1	ND
溴氟甲烷	74-97-5	µg/g	0.1	ND
HFC				
HFC-23	75-46-7	µg/g	0.1	ND
HFC-32	75-10-5	µg/g	0.1	ND
HFC-41	593-53-3	µg/g	0.1	ND
HFC-43-10mee		µg/g	0.1	ND
HFC-125	354-33-6	µg/g	0.1	ND



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测试报告

No. SHAMPLP1915801301

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测试项目	CAS NO.	单位	MDL	001
HFC-134	359-35-3	µg/g	0.1	ND
HFC-134a	811-97-2	µg/g	0.1	ND
HFC-152a	75-37-6	µg/g	0.1	ND
HFC-143	420-46-2	µg/g	0.1	ND
HFC-143a	430-66-0	µg/g	0.1	ND
HFC-227ea		µg/g	0.1	ND
HFC-236cb		µg/g	0.1	ND
HFC-236ea	431-63-0	µg/g	0.1	ND
HFC-236fa	690-39-1	µg/g	0.1	ND
HFC-245ca	679-86-7	µg/g	0.1	ND
HFC-245fa		µg/g	0.1	ND
HFC-365mfc		µg/g	0.1	ND
PFC				
全氟甲烷	75-73-0	µg/g	0.1	ND
全氟乙烷	76-16-4	µg/g	0.1	ND
全氟丙烷	76-19-7	µg/g	0.1	ND
全氟丁烷	355-25-9	µg/g	0.1	ND
全氟戊烷	678-26-2	µg/g	0.1	ND
全氟己烷	355-42-0	µg/g	0.1	ND
全氟环丁烷	115-25-3	µg/g	0.1	ND
CHC				
1,3-二氯丙烷	142-28-9	µg/g	0.1	ND
2,2-二氯丙烷	594-20-7	µg/g	0.1	ND
四氯化碳	56-23-5	µg/g	0.1	ND
氯乙烷	75-00-3	µg/g	0.1	ND
三氯甲烷	67-66-3	µg/g	0.1	ND
一氯甲烷	74-87-3	µg/g	0.1	ND
顺1,2-二氯乙烷	156-59-2	µg/g	0.1	ND
顺1,3-二氯丙烷	10061-01-5	µg/g	0.1	ND
六氯丁二烯	87-68-3	µg/g	0.1	ND
二氯甲烷	75-09-2	µg/g	0.1	ND
四氯乙烯	127-18-4	µg/g	0.1	ND
反1,2-二氯乙烷	156-60-5	µg/g	0.1	ND
反1,3-二氯丙烷	10061-02-6	µg/g	0.1	ND
三氯乙烯	79-01-6	µg/g	0.1	ND
1,1,1,2-四氯乙烷	630-20-6	µg/g	0.1	ND
1,1,1-三氯乙烷	71-55-6	µg/g	0.1	ND
1,1,1,2-四氯乙烷	79-34-5	µg/g	0.1	ND
1,1,2-三氯乙烷	79-00-5	µg/g	0.1	ND
1,1-二氯乙烷	75-34-3	µg/g	0.1	ND



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测试报告

No. SHAMPLP1915801301

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测试项目	CAS NO.	单位	MDL	001
1,1-二氯乙烯	75-35-4	µg/g	0.1	ND
1,1-二氯丙烯	563-58-6	µg/g	0.1	ND
1,2,3-三氯丙烷	96-18-4	µg/g	0.1	ND
1,2-二氯乙烷	107-06-2	µg/g	0.1	ND
1,2-二氯丙烷	78-87-5	µg/g	0.1	ND

邻苯二甲酸盐(或酯)

测试方法: 参照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
邻苯二甲酸丁酯(DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苯酯(BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯(DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯(DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯(DIDP)	26761-40-0/ 68515-49-1	%	0.01	ND
邻苯二甲酸二异丁酯(DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯(DMEP)	117-82-8	%	0.003	ND
邻苯二甲酸二-(C7,C9,C11)烷基酯(DHNUP)	68515-42-4	%	0.01	ND
邻苯二甲酸二正己酯(DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二C6-C8支链烷基酯(DIHP)	71888-89-6	%	0.01	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
- 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



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测试报告

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(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

短链氯化石蜡(SCCP)

测试方法: 参照US EPA 3550C: 2007, 采用GC-ECD / GC-NCI-MS 进行分析.

测试项目	单位	MDL	001
短链氯化石蜡(SCCP) (C ₁₀ -C ₁₃)	mg/kg	50	ND

石棉

测试方法: 参考NIOSH 9000:1994, ISO 22262-1:2012, 用X射线衍射仪(XRD), 偏光显微镜(PLM)测定.

测试项目	CAS NO.	单位	MDL	001
阳起石	77536-66-4	%	0.1	阴性
铁石棉	12172-73-5	%	0.1	阴性
直闪石	77536-67-5	%	0.1	阴性
温石棉	12001-29-5	%	0.1	阴性
	132207-32-0			
青石棉	12001-28-4	%	0.1	阴性
透闪石	77536-68-6	%	0.1	阴性

备注:

- (1) 阴性=未检出石棉, 阳性=检出石棉

甲醛

测试方法: 参照ISO 17226-1: 2008 方法测定, 采用HPLC-DAD 进行分析.



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测试报告

No. SHAMPLP1915801301

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测试项目	单位	MDL	001
甲醛	mg/kg	16	ND

欧盟决议(EU) No 412/2012 及1907/2006/EC Reach附录XVII第61条-富马酸二甲酯(DMF)

测试方法: 溶剂萃取, 采用GC-MS进行分析.

测试项目	限值	单位	MDL	001
富马酸二甲酯(DMF)	0.1	mg/kg	0.1	ND
结论				符合

双酚-A

测试方法: 参照US EPA 3550C: 2007, 采用HPLC-DAD-MS进行分析.

测试项目	单位	MDL	001
双酚A	mg/kg	1	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
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)芘(二苯嵌苯) (BPE)	mg/kg	0.1	ND
茚并(1,2,3-c,d)芘 (IPY)	mg/kg	0.1	ND
萘烯(ANY)	mg/kg	0.1	ND
萘(蒽嵌戊烷) (ANA)	mg/kg	0.1	ND
芘 (FLU)	mg/kg	0.1	ND
菲 (PHE)	mg/kg	0.1	ND



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测试报告

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测试项目	单位	MDL	001
砒 (PYR)	mg/kg	0.1	ND
蒽 (ANT)	mg/kg	0.1	ND
荧蒽 (FLT)	mg/kg	0.1	ND
7项多环芳香烃总和[萘烯(ANY),萘(萘嵌戊烷) (ANA),芴 (FLU),菲 (PHE),砒 (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
材料分类	-	-	3

备注:

根据客户提供的信息,测试样品为产品安全法涉及的非玩具产品。

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)蒽 (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)蒽 (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(a)芘 (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)芘(二苯嵌苯) (BPE)n mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
蒽(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),砒 (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



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测试报告

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偶氮染料

测试方法: 参考EN 14362-1:2012 - 采用GC-MS/HPLC-DAD 进行分析.

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, 4-二氨基苯甲醛	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'-二甲氨基联苯胺	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-氨基对甲苯甲醛 (p-克利酊)	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.
- (3) 4 氨基联苯(CAS No. 92-67-1), 2 萘胺(CAS number 91-59-8), 2,4 二氨基苯甲醛(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



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测试报告

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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.

(6) 这项测试由宁波SGS化学实验室检测.

多氯联苯(PCBs)

测试方法: 参照US EPA 8082A: 2007 方法测定, 采用 GC-MS进行分析.

Table with 5 columns: 测试项目, CAS NO., 单位, MDL, 001. Lists PCB congeners like 2,4,4'-三氯联苯 (PCB 28) with their respective CAS numbers and MDL values.

全氟辛烷磺酸 (PFOS)及衍生物

测试方法: 参照US EPA 3550C: 2007. 采用HPLC-MS测试.

Table with 5 columns: 测试项目, 限值, 单位, MDL, 001. Lists 全氟辛烷磺酸(PFOS)及衍生物 with a limit value of 1000 mg/kg.

备注:

- (1) 最大允许限制引用自(EC) No. 850/2004 的修订指令欧盟决议(EU) No. 757/2010.
(2) ^=全氟辛烷磺(PFOS)及其衍生物包含全氟辛烷磺酸(PFOS), 全氟辛基磺酰胺(PFOA), 2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE), N-甲基全氟辛烷磺酰胺(MeFOA), N-乙基全氟辛烷磺酰胺(EtFOA)和2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE).

苯并三唑类紫外吸收剂

测试方法: 参照US EPA 3550C: 2007, 采用GC-MS进行分析.

Table with 5 columns: 测试项目, 单位, MDL, 001. Lists benzotriazole UV absorbers like 2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑 with their respective CAS numbers and MDL values.



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测试项目

2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑(CAS No: 36437-37-3)

单位	MDL	001
mg/kg	5	ND

样品照片:



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*** 报告完 ***



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