

检测报告

编号: CANEC23015829936

日期: 2023年12月12日

第1页, 共10页

客户名称: 中山市中益油墨涂料有限公司三角分公司
客户地址: 广东省中山市三角镇福泽路13号

样品名称: UV+LED 油墨+助剂
客户参考信息: UVB/UVC/UVL/UVT/UVX/UVH/UVM/UVK/UVR/UVAS/LEA/LEB/LEC/LER/LEF, -005/043/102/102B/102T/1023/103/105/105A/105B/100 底油/200 面油 /110/120/130/210/131/133/135/137/140/141/148/159/201/203/302/305/3020/40 10/403/404/408/501/501T/B600/Y600/R600/K600/601/601T/760/780/780A/801 /810/830/850/860/880/901/902/0011220/0011220A/0011220B/005196/005198/ 001120C/001120D/001120E/001120F/001108/001108A/001108B/005043/005 043D/0736/001227/0762/调金油、调墨油、键盘光油、键盘哑油、吸水纸哑光 白、吸水纸亮光白、磨砂、LEB-洒粉光油、面板光油、吸水亮光黑/吸水纸光油 (抗粘性)/植绒光油/稀释剂

以上样品及信息由客户提供。

SGS 工作编号: GZP23-021408
样品接收时间: 2023年12月06日
检测周期: 2023年12月06日 ~ 2023年12月12日
检测要求: 根据客户要求检测
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅, 汞, 镉, 六价铬, 多溴联苯(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸二丁酯 (DBP), 邻苯二甲酸丁苄酯(BBP), 邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯 (DIBP)	符合
EN 71-3:2019+A1:2021 - 特定元素迁移测试(针对第三类:可以刮取玩具材料)	见检测结果
欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2018/2005 第 51 条- 邻苯二甲酸酯	符合

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授权签名

李嘉欣

Jessie-JX Li 李嘉欣
批准签署人

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Guangzhou Branch Technical Services Co. Laboratory

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检测报告

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日期: 2023年12月12日

第2页, 共10页

检测要求	结论
欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正法案(EU) 2015/326 第 52 条- 邻苯二甲酸酯	符合

检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A10	CAN23-0158299-0001.C010	白色液体

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅, 汞, 镉, 六价铬, 多溴联苯(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸二丁酯 (DBP), 邻苯二甲酸丁苄酯(BBP), 邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)

检测方法: 参考 IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES,UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A10
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞(Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯(MonoBB)	-	mg/kg	5	ND
二溴联苯(DiBB)	-	mg/kg	5	ND
三溴联苯(TriBB)	-	mg/kg	5	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND
七溴联苯(HeptaBB)	-	mg/kg	5	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND



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日期: 2023年12月12日

第3页, 共10页

检测项目	限值	单位	MDL	A10
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND
十溴二苯醚(DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注:

- (1) 最大允许限值引用自 RoHS 指令(EU) 2015/863。
- (2) IEC 62321 系列等同于 EN 62321 系列。
- (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。

EN 71-3:2019+A1:2021 - 特定元素迁移测试(针对第三类:可以刮取玩具材料)

检测方法: 参考 EN 71-3:2019+A1:2021, 采用 ICP-OES, IC-UV 或 LC-ICP-MS 进行分析。

检测项目	限值	单位	MDL	A10
可溶性铝 (Al)	28130	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)	18750	mg/kg	50	ND
可溶性硼 (B)	15000	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 (CrVI)	0.053	mg/kg	0.025	ND
可溶性钴 (Co)	130	mg/kg	10	ND
可溶性铜 (Cu)	7700	mg/kg	50	ND
可溶性铅 (Pb)	23	mg/kg	5	ND
可溶性锰 (Mn)	15000	mg/kg	50	ND
可溶性汞 (Hg)	94	mg/kg	10	ND
可溶性镍 (Ni)	930	mg/kg	10	ND
可溶性硒 (Se)	460	mg/kg	10	ND
可溶性锶 (Sr)	56000	mg/kg	50	ND
可溶性锡 (Sn)	180000	mg/kg	3	ND
可溶性锌 (Zn)	46000	mg/kg	50	ND
可溶性有机锡*	12	mg/kg	-	ND

备注:

- (1) 根据 EN 71-3:2019+A1:2021 第 10.1.2 章节规定, Cr(III)结果由以下公式换算得到:
可溶性三价铬 = 可溶性总铬 - 可溶性六价铬



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第4页, 共10页

(2) * 可溶性锡转化为可溶性有机锡后的含量没有超过 EN 71-3:2019+A1:2021 中相应限量, 根据 EN 71-3:2019+A1:2021 的要求, 不需要额外检测可溶性有机锡的含量。

欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正案(EU) 2018/2005 第 51 条- 邻苯二甲酸酯

检测方法: 参考 EN 14372: 2004 的方法, 采用 GC-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A10
邻苯二甲酸二丁酯 (DBP)	84-74-2	0.1	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	0.1	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	0.1	%	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	0.1	%	0.003	ND
合计 (DBP + BBP + DEHP+DIBP)	-	0.1	%	-	ND
结论					符合

备注:

DBP、BBP、DEHP、DIBP 参考信息: 欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正案(EU) 2018/2005 第 51 条:

- i) 不允许 DBP、BBP、DEHP、DIBP 单一质量浓度或质量浓度总和等于或高于 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 单一质量浓度或质量浓度总和等于或高于 0.1%时, 不得投放市场。另外, 当玩具和儿童护理品中的可塑性物料含 DIBP 单一质量浓度或 DBP、BBP、DEHP、DIBP 质量浓度总和等于或高于 0.1%时, 2020年7月7日后不得投放市场。
- iii) 当成品中的可塑性物料含 DBP、BBP、DEHP、DIBP 单一质量浓度或质量浓度总和等于或高于 0.1%时, 2020年7月7日后不得投放市场。

详细信息请参见 Regulation (EU) 2018/2005。

欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及其修正案(EU) 2015/326 第 52 条- 邻苯二甲酸酯

检测方法: 参考 EN 14372: 2004 的方法, 采用 GC-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A10
邻苯二甲酸二异壬酯 (DINP)	28553-12-0 /68515-48-0	-	%	0.010	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	-	%	0.010	ND
合计(DINP + DNOP + DIDP)	-	0.1	%	-	ND
结论					符合

备注:

DINP、DNOP、DIDP 参考信息: 欧盟法规(EC) No 1907/2006 REACH 附录 XVII 及修正案(EU) 2015/326 第 52 条:

- 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



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检测报告

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日期: 2023年12月12日

第5页, 共10页

得投放市场。

详细信息请参见 Regulation (EU) 2015/326。

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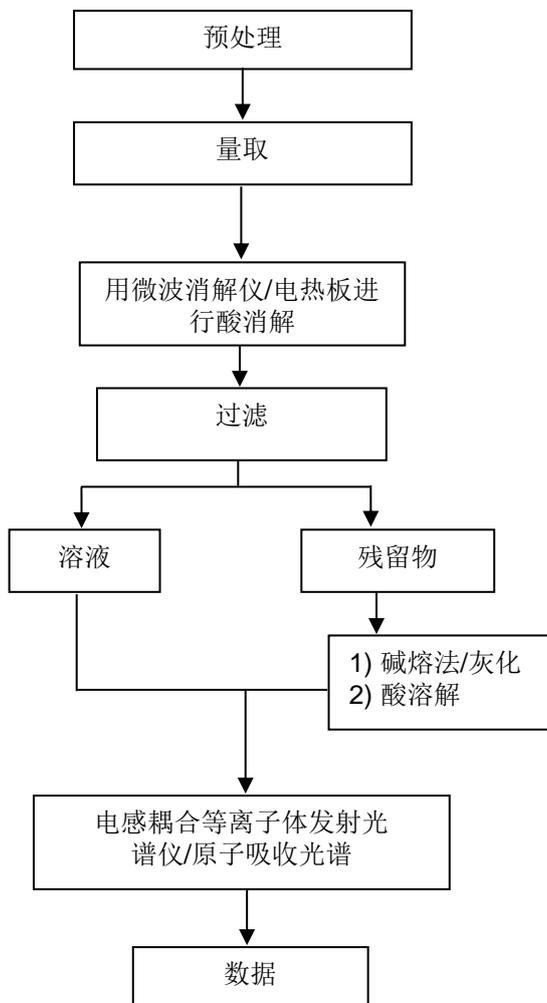
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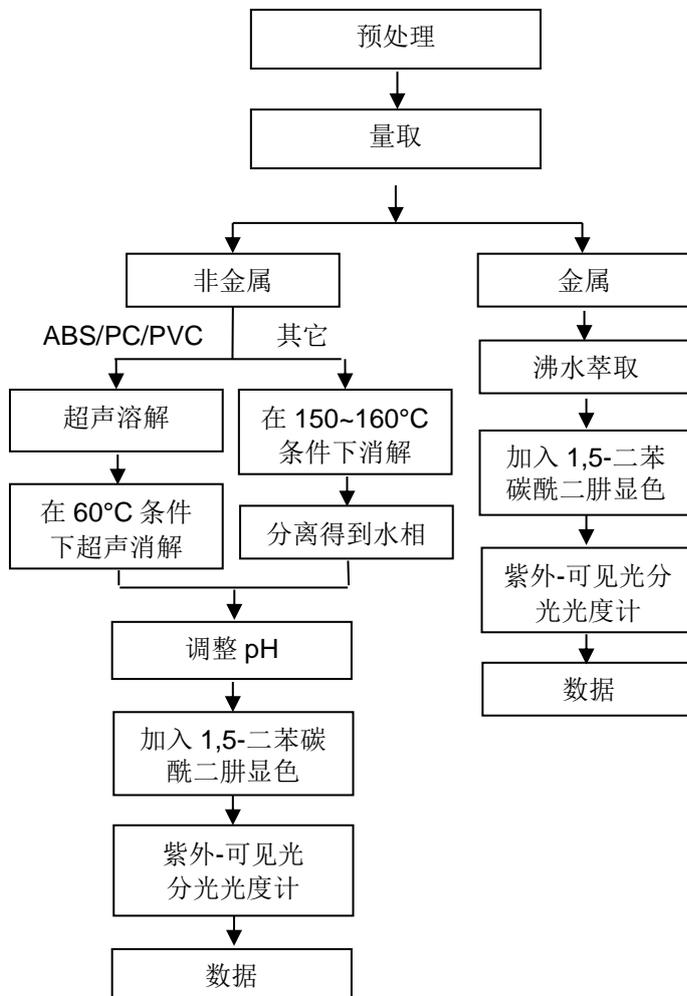
附件

元素检测流程图

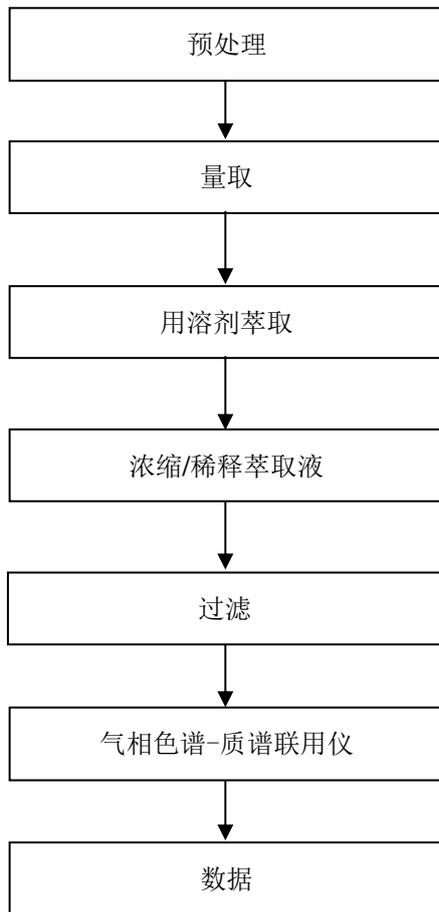
样品按照下述流程被完全消解



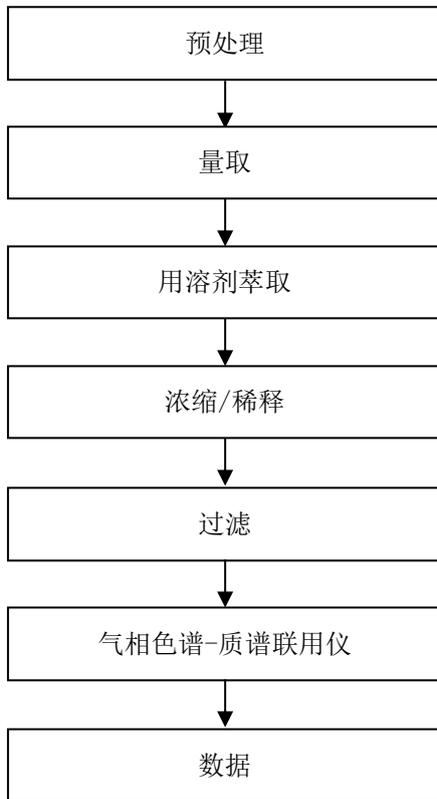
六价铬检测流程图



PBBs/PBDEs 检测流程图



Phthalates 检测流程图



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第10页, 共10页

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