

测试报告

No. SHAEC2102923216

日期: 2021年03月05日 第1页,共11页

杭华油墨股份有限公司

杭州经济技术开发区白杨街道5号大街(南)2号

以下测试之样品是由申请者所提供及确认: UV (BEST CURE) 混合物油墨

SGS工作编号: SP21-004147 - SH

型号: UV 161、UV VP、UV HY-BD、UV SUP、UV YQ15-NT、UV YQ69-NT、UV LHP、UV NEW HZ、UV HZ、UV L CARTON、UV LS、UV NH、UV NH (H)、UV KFI、UV 171、UV CS、UV RNC、UV NVR、UV BF、UV PFP-NT、UV PANTONE、UV G-PACK、UV TPU01、UV SF、UV DT、UV KY、

UV HF、UV NHF、UV NHF-LED、UV NT、UV CHP、UV BG、UV QYS-NT、UV KTP、UV DG、UV HC、UV NEW HF、UV HL、UV HJ、UV YL-NT、UV ASP、UV NT (XY)、UV GCP、UV SJ、UV HN-DZ、UV WL、UV INCARD、UV SCREEN、UV K-HS、UV OFS、UV LED、UV 161-LED、UV LES、UV TS、

YT UV INK、UV CHD、UV ZH、UV SOYA、UV VNL、UV HT、UV FLEXO、UV 云南白药、乐卡LeCard、UV ART、乐固LeCure、LED UV HK/90、UV GP、UV GP-LED、UV ART、UV H-PACK、UV IJ、UV LC-LED、UV TK/KW/NO.7 底油、UV HJK、UV 消光/哑光油、UV EMBOSS、UV NYD、UV ST、

UV 剥离光油、UV逆向底油/光油、UV NO.1、3、5、6银墨、UV 青光/红光金墨、No.2减粘剂、UV UP-2光油、UV 油墨干燥助剂、UV滑爽剂、UV 流平剂、UV增强剂、UV MPS、UV 荧光系列、UV WEB、LC-LED WEB、优卡U-Card、蒙太奇、蒙太奇 WEB、蒙太奇 密胺、UV Biomass 混合物。

成分: 油墨

样品接收日期: 2021年02月23日

测试周期: 2021年02月23日 - 2021年02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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通标标准技术服务(上海)有限公司
授权签名

盛雯舒

Sue Sheng 盛雯舒
批准签署人

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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	SHA21-029232.004	黑色油墨

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及其修订指令(EU) 2019/1728之协调标准 EN 71-3:2019— 特定元素迁移测试(针对第三类:可以刮取玩具材料)

测试方法: 参照EN 71-3:2019, 采用ICP-OES, IC-UV或LC-ICP-MS进行分析。

测试项目	限值	单位	MDL	004
可溶性六价铬(CrVI)	0.053	mg/kg	0.025	ND
可溶性铅(Pb)	23	mg/kg	5	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
可溶性镉(Cd)	17	mg/kg	5	ND
可溶性三价铬(CrIII)	460	mg/kg	5	ND
可溶性汞(Hg)	94	mg/kg	10	ND
可溶性硒(Se)	460	mg/kg	10	ND
可溶性硼(B)	15000	mg/kg	50	ND
可溶性钴(Co)	130	mg/kg	10	ND
可溶性锰(Mn)	15000	mg/kg	50	ND
可溶性锶(Sr)	56000	mg/kg	50	ND
可溶性锌(Zn)	46000	mg/kg	50	ND
可溶性铜(Cu)	7700	mg/kg	50	ND
可溶性铝(Al)	70000	mg/kg	50	ND
可溶性镍(Ni)	930	mg/kg	10	ND
可溶性锡(Sn)	180000	mg/kg	3	ND
可溶性有机锡*	12	mg/kg	-	ND

备注:



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(1) *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 中相应限量, 根据EN 71-3:2019的要求, 不需要额外测试可溶性有机锡的含量。

四溴双酚-A

测试方法: 参照 US EPA 3540C: 1996 方法测定, 采用GC-MS进行分析.

测试项目	单位	MDL	004
四溴双酚-A	mg/kg	10	ND

甲醛

测试方法: 参照ISO 17226-1:2018, 采用HPLC-DAD进行分析.

测试项目	单位	MDL	004
甲醛	mg/kg	16	ND

六溴环十二烷(HBCDD)

测试方法: 参考IEC 62321:2008, 采用GC-MS分析六溴环十二烷含量.

测试项目	单位	MDL	004
六溴环十二烷(HBCDD)	mg/kg	10	ND

邻苯二甲酸酯

测试方法: 参考IEC 62321-8: 2017, 用GC-MS测定邻苯二甲酸酯的含量.

测试项目	CAS NO.	单位	MDL	004
邻苯二甲酸二辛酯 (DNOP)	117-84-0	mg/kg	50	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0	mg/kg	50	ND
邻苯二甲酸二异癸酯 (DIDP)	/68515-48-0			
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0	mg/kg	50	ND
邻苯二甲酸二异癸酯 (DIDP)	/68515-49-1			
邻苯二甲酸二正己酯 (DHP, DHxP)	84-75-3	mg/kg	50	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	mg/kg	50	ND
邻苯二甲酸二乙酯 (DEP)	84-66-2	mg/kg	50	ND



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测试项目	CAS NO.	单位	MDL	004
邻苯二甲酸二甲酯 (DMP)	131-11-3	mg/kg	50	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	mg/kg	50	ND
邻苯二甲酸二C6-C8支链烷基酯 (DIHP)	71888-89-6	mg/kg	50	ND
邻苯二甲酸二异戊酯 (DiPP)	605-50-5	mg/kg	50	ND
邻苯二甲酸二苯酯 (DPhP)	84-62-8	mg/kg	50	ND
邻苯二甲酸-二(C7,C9,C11)烷基酯 (DHNUP)	68515-42-4	mg/kg	50	ND

全氟辛烷磺酸 (PFOS)及衍生物和全氟辛酸(PFOA)

测试方法: 参考 CEN/TS 15968: 2010方法, 采用HPLC-MS 或LC-MS-MS进行分析。

测试项目	CAS NO.	单位	MDL	004
全氟辛烷磺酸(PFOS)及衍生物		mg/kg	-	ND
全氟辛烷磺酸(PFOS)^	1763-23-1	mg/kg	0.01	ND
2-(N-甲基全氟辛基磺酰胺)乙醇 (MeFOSE)	24448-09-7	mg/kg	0.01	ND
2-(N-乙基全氟辛基磺酰胺)乙醇 (EtFOSE)	1691-99-2	mg/kg	0.01	ND
N-甲基全氟辛烷磺酰胺 (MeFOSA)	31506-32-8	mg/kg	0.01	ND
N-乙基全氟辛烷磺酰胺 (EtFOSA)	4151-50-2	mg/kg	0.01	ND
全氟辛基磺酰胺 (PFOSA)	754-91-6	mg/kg	0.01	ND
全氟辛酸(PFOA)及其盐+		mg/kg	0.01	ND

备注:

- (1) + PFOA 及其盐包含PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) 和 APFO (CAS No.: 3825-26-1);
- (2) ^ 全氟辛烷磺酸 (PFOS)包含 PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-DDA (CAS No.:251099-16-8) 和POSF (CAS No.: 307-35-7)

此样品在烘箱中烘烤18小时后测试。

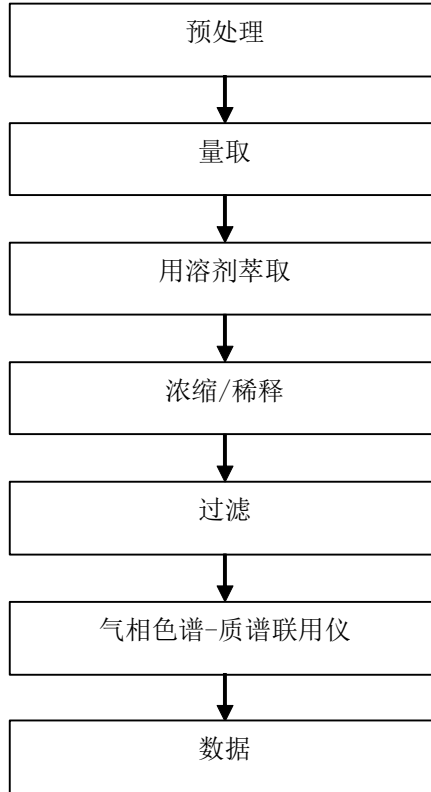
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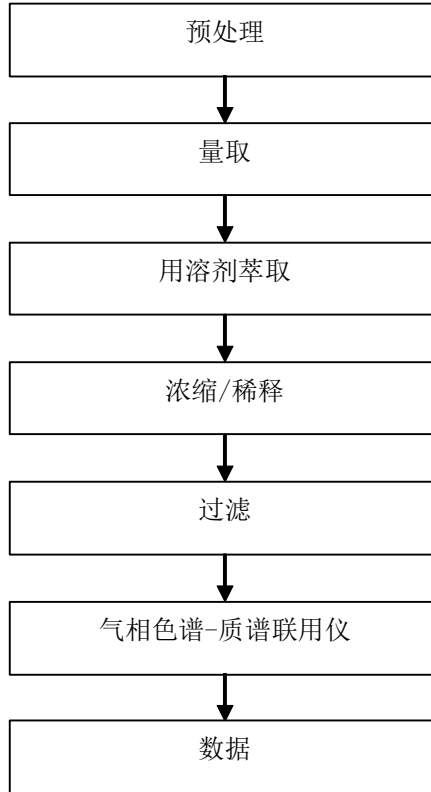
Phthalates 测试流程图



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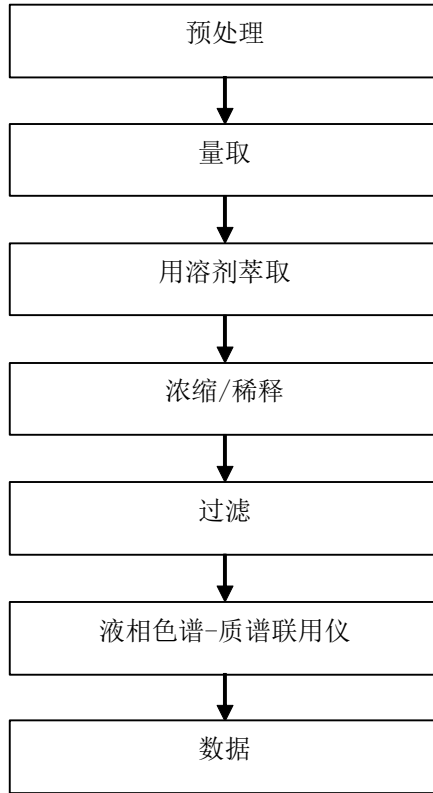
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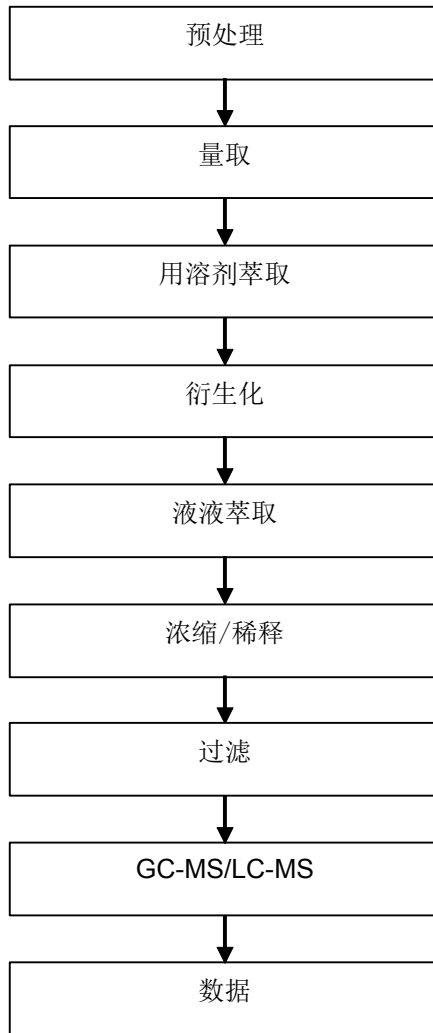
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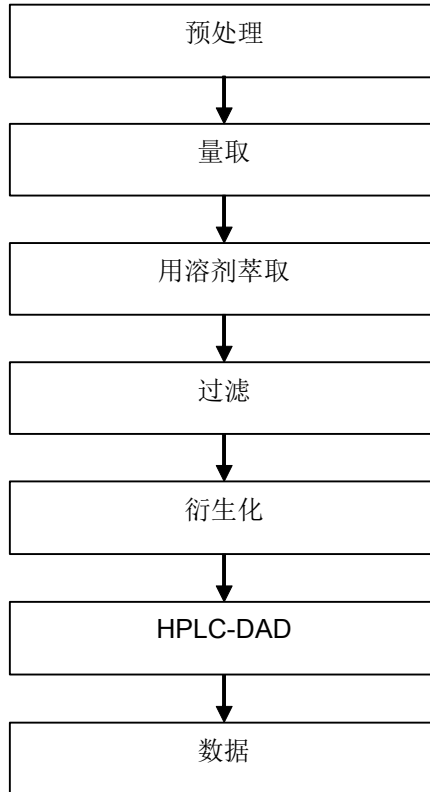
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甲醛测试流程图



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