

## 测试报告

No. SHAEC2102923214

日期: 2021年03月05日 第1页,共9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

结论: 基于所送样品进行的测试, 镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯 (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))的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。



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日期: 2021年03月05日 第2页,共9页

委托检验包装样品的总铅,镉,汞和六价铬含量之和符合欧洲委员会指令94/62/EC-11款(2001年6月起生效)所述的限量规定.

通标标准技术服务(上海)有限公司  
授权签名

刘海鹏

Helen Liu 刘海鹏  
批准签署人

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**测试报告**

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日期: 2021年03月05日 第3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	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

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

测试方法: 参考IEC 62321-4:2013+AMD1:2017, 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。

测试项目	限值	单位	MDL	004
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	-	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
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND



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测试项目	限值	单位	MDL	004
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
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) 最大允许极限值引用自RoHS指令(EU) 2015/863。

IEC 62321系列等同于 EN 62321系列

[https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)

(2) 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。

## 欧洲委员会指令94/62/EC-第11条款

测试方法: 参考IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013和IEC 62321-7-2:2017, 采用ICP-OES和UV-Vis进行分析。

测试项目	限值	单位	MDL	004
镉 (Cd)	-	mg/kg	5	ND
铅 (Pb)	-	mg/kg	5	ND
汞 (Hg)	-	mg/kg	5	ND
六价铬 (CrVI)	-	mg/kg	8	ND
总量 (Pb + Cd + Cr VI + Hg)	100	mg/kg	-	ND

此样品在烘箱中烘烤18小时后测试。

除非另有说明, 此报告结果仅对测试的样品负责。本报告未经本公司书面许可, 不可部分复制。



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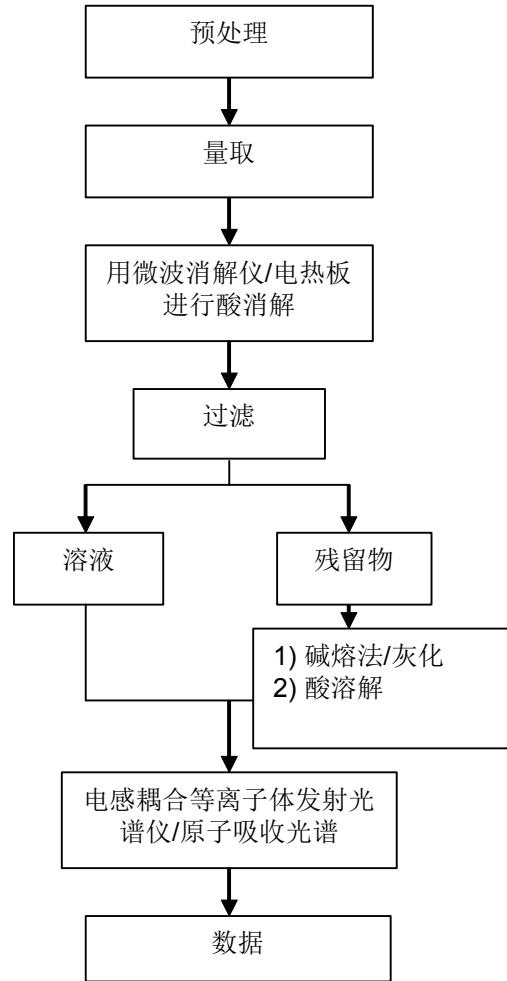
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元素(IEC62321) 测试流程图

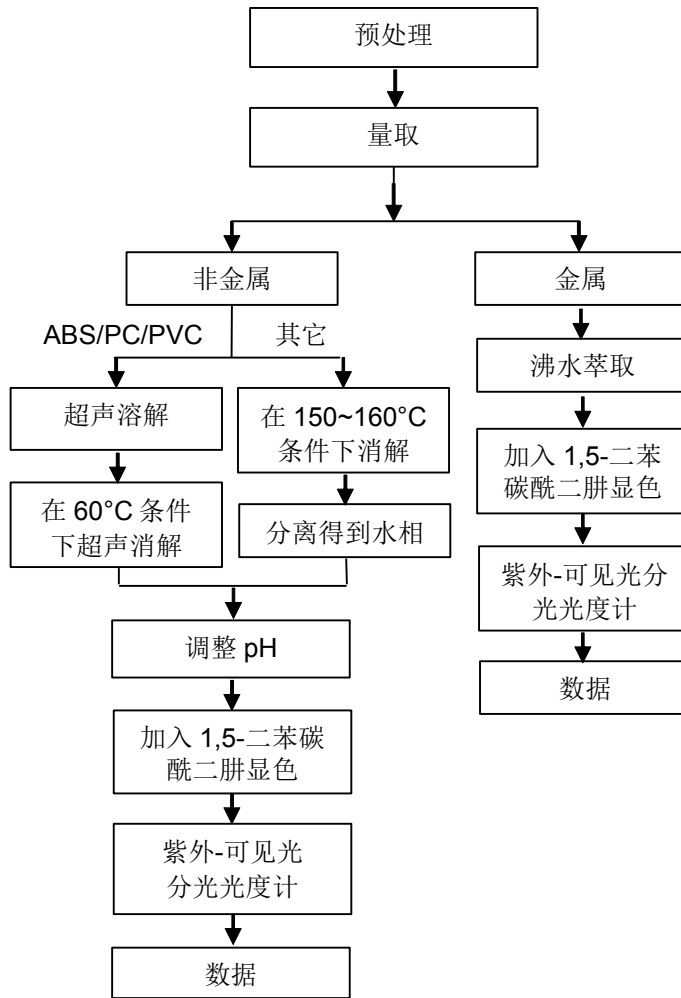
1)样品按照下述流程被完全消解



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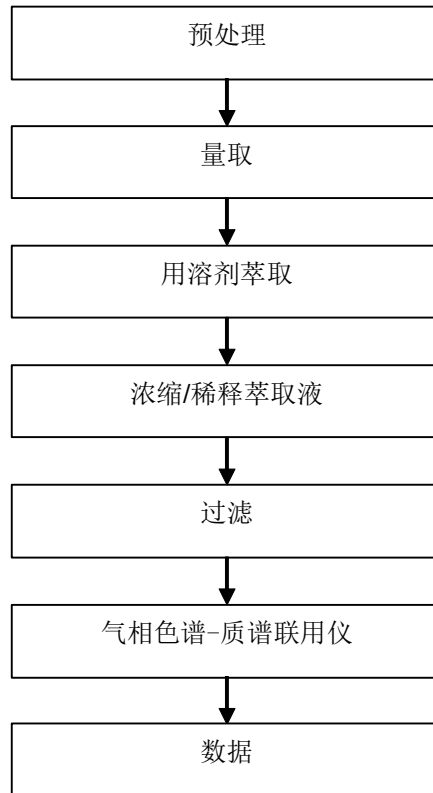
六价铬测试流程图



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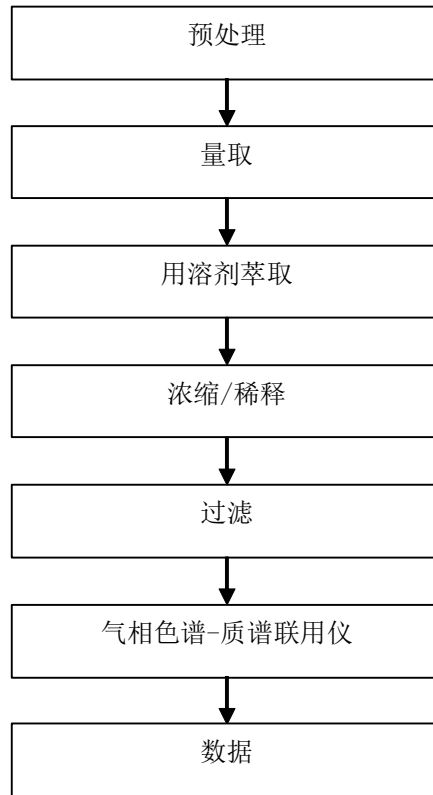
**PBBs/PBDEs 测试流程图**



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## Phthalates 测试流程图



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