

检测报告 Test Report

报告编号: SLT241223005-1
NO.:
委托方名称: 深圳光华伟业股份有限公司
Client: Shenzhen Esun Industrial Co.,Ltd.
委托方地址: 深圳市南山区粤海街道高新区社区高新南九道 55 号微软科通大厦 15A
Client's Address: 15A, Microsoft Ketong Building, No. 55 Gaoxinnan 9th Road, High tech Community, Yuchai Street, Nanshan District, Shenzhen.

以下检测之样品及样品信息由申请者提供并确认

Samples information of the following tests are provided and confirmed by the applicant

样品名称: ABS, ABS+, PETG+HS, PLA-LW, PETG-Basic
Sample Name:
样品型号: /
Mode/Type:
样品接收日期: Dec 23, 2024
Sample Receiving Date:
样品检测日期: Dec 23, 2024~Dec 28, 2024
Test Date:
检测依据及结果: 请参见下页
Test Method&Result: See the next page

检测要求 Test Request	结论 Conclusion
根据客户要求, 依据指令 2011/65/EU 及修改指令(EU)2015/863 对所提交样品中的镉 (Cd)、铅 (Pb)、汞 (Hg)、六价铬 (Cr(VI))、多溴联苯 (PBBs)、多溴二苯醚 (PBDEs)、邻苯二甲酸丁基苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸二 (2-乙基己基) 酯 (DEHP)、邻苯二甲酸二异丁酯 (DIBP) 进行检测。 As specified by client, according to RoHS Directive 2011/65/EU with amendment (EU) 2015/863 to test Cadmium (Cd), Lead (Pb), Mercury (Hg), Hexavalent chromium (Cr(VI)), Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), Bis (2-ethylhexyl) phthalate (DEHP), and Diisobutyl phthalate (DIBP) in the submitted sample(s).	符合 Pass



企业公众号
Corporate public number



报告防伪查询
Report anti-counterfeiting query



报告制作: xue yan sun
Reported by:

报告批准: Xiaoyun Wang
Approved by:

报告审核: An Wei
Inspected by:

报告日期: Dec 28, 2024
Date of issue:

网址(Website): www.china-laien.com

验证码(Verification Code): HAA0NTZPPR1

公司名称: 山东莱恩检测技术服务有限公司

Company: Shandong Lion Testing Technology Service Co., Ltd

地址: 中国(山东)自由贸易试验区烟台片区上海大街 21 号大兴工业园 B-2、C-4 厂房

Add: Building B-2 and C-4, Daxing Industrial Park, No.21, Shanghai Street, Pilot Free Trade Zone, Yantai Area, Shandong, China

投诉电话(Complaint Tel): 0535-6957815

邮编(Postcode): 264000

邮箱(E-mail): kfone@laientest.com

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检测方法 (Test Method) :

检测项目 Test Item(s)	检测方法 Test Method(s)	检测仪器 Test Equipment(s)
镉 (Cd)	IEC 62321-5:2013	ICP-OES
铅 (Pb)	IEC 62321-5:2013	ICP-OES
汞 (Hg)	IEC 62321-4:2013+A1:2017	ICP-OES
六价铬 (Cr(VI))	IEC 62321-7-2:2017	UV-Vis
多溴联苯 (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸丁基苄酯 Butyl benzyl phthalate(BBP)	IEC 62321-8:2017	GC-MS
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)	IEC 62321-8:2017	GC-MS
邻苯二甲酸二(2-乙基己基)酯 Bis (2-ethylhexyl) phthalate (DEHP)	IEC 62321-8:2017	GC-MS
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS

检测结果 (Test Result) :

检测项目 Test Item(s)	检测结果 Test Result(s)	方法检出限 MDL	单位 (Unit) : mg/kg EU RoHS 指令限值 EU RoHS Limit
镉 (Cd)	ND	1	100
铅 (Pb)	ND	2	1000
汞 (Hg)	ND	2	1000
六价铬 (Cr(VI))	ND	7	1000
一溴联苯 (Monobromobiphenyl)	ND	5	—
二溴联苯 (Dibromobiphenyl)	ND	5	—
三溴联苯 (Tribromobiphenyl)	ND	5	—
四溴联苯 (Tetrabromobiphenyl)	ND	5	—
五溴联苯 (Pentabromobiphenyl)	ND	5	—
六溴联苯 (Hexabromobiphenyl)	ND	5	—
七溴联苯 (Heptabromobiphenyl)	ND	5	—
八溴联苯 (Octabromobiphenyl)	ND	5	—
九溴联苯 (Nonabromobiphenyl)	ND	5	—

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单位 (Unit): mg/kg

检测项目 Test Item(s)	检测结果 Test Result(s)	方法检出限 MDL	EU RoHS 指令限值 EU RoHS Limit
十溴联苯 (Decabromobiphenyl)	ND	5	—
多溴联苯总和 (Sum of PBBs)	ND	—	1000
一溴二苯醚 (Monobromodiphenyl ether)	ND	5	—
二溴二苯醚 (Dibromodiphenyl ether)	ND	5	—
三溴二苯醚 (Tribromodiphenyl ether)	ND	5	—
四溴二苯醚 (Tetrabromodiphenyl ether)	ND	5	—
五溴二苯醚 (Pentabromodiphenyl ether)	ND	5	—
六溴二苯醚 (Hexabromodiphenyl ether)	ND	5	—
七溴二苯醚 (Heptabromodiphenyl ether)	ND	5	—
八溴二苯醚 (Octabromodiphenyl ether)	ND	5	—
九溴二苯醚 (Nonabromodiphenyl ether)	ND	5	—
十溴二苯醚 (Decabromodiphenyl ether)	ND	5	—
多溴二苯醚总和 (Sum of PBDEs)	ND	—	1000
邻苯二甲酸丁基苄酯 Butyl benzyl phthalate (BBP)	ND	30	1000
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP)	ND	30	1000
邻苯二甲酸二(2-乙基己基)酯 Bis (2-ethylhexyl) phthalate (DEHP)	ND	30	1000
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP)	ND	30	1000
结论: 符合。 Conclusion: Pass.			

备注 (Remark):

ND= Not Detected (未侦测出) (<MDL);

方法检出限 = Method Detection Limit (MDL);

"—" = 未规定;

"—" = Not specified;

1mg/kg=0.0001% (wt).

以上检测结果为五种样品混测之结果。

The above test results are the results of mixed testing of five samples.

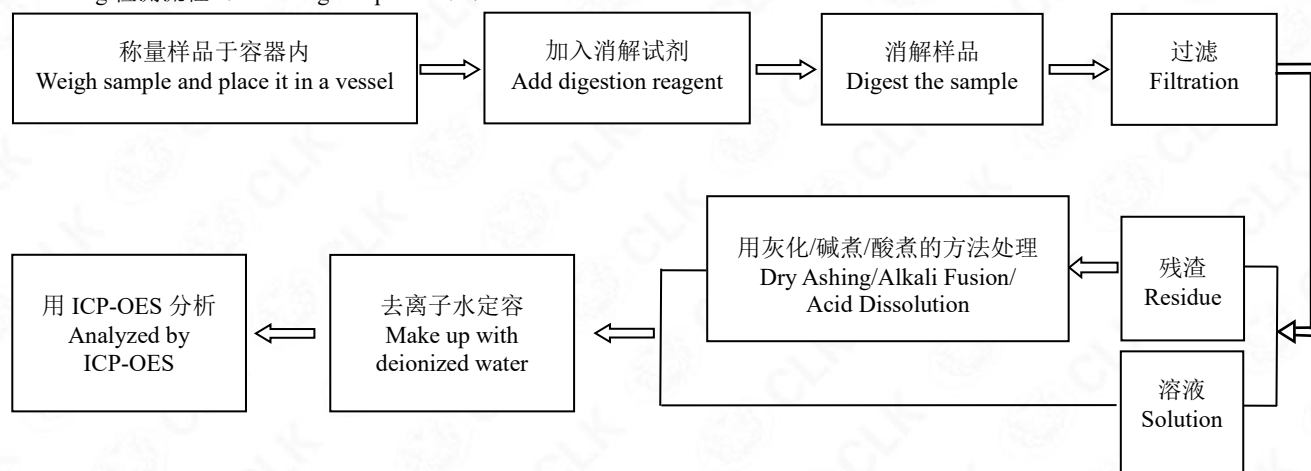
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样品图片 (Sample Picture) :

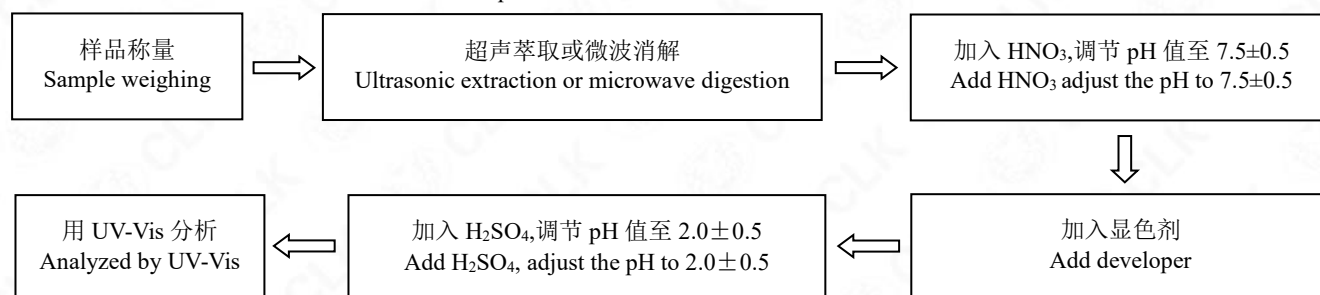


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Pb/Cd/Hg 检测流程 (Pb/Cd/Hg test process) :



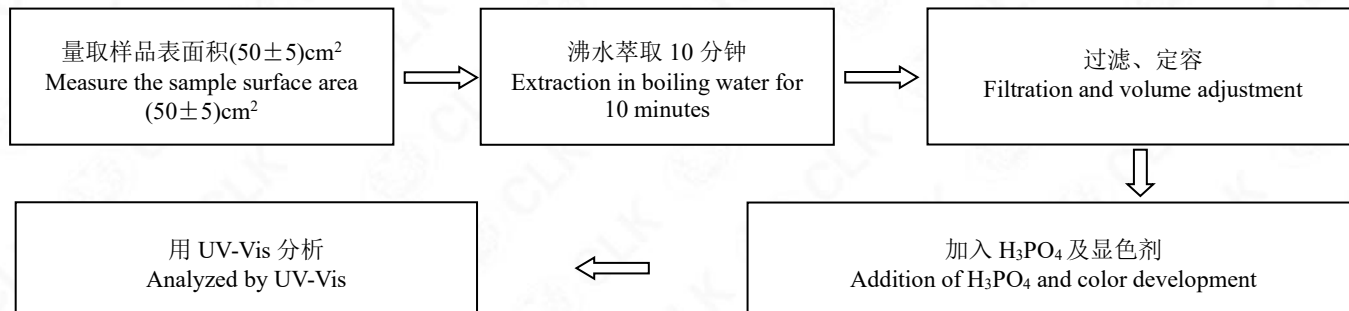
Cr⁶⁺检测流程 (非金属) (Cr⁶⁺ non-metallic test process) :



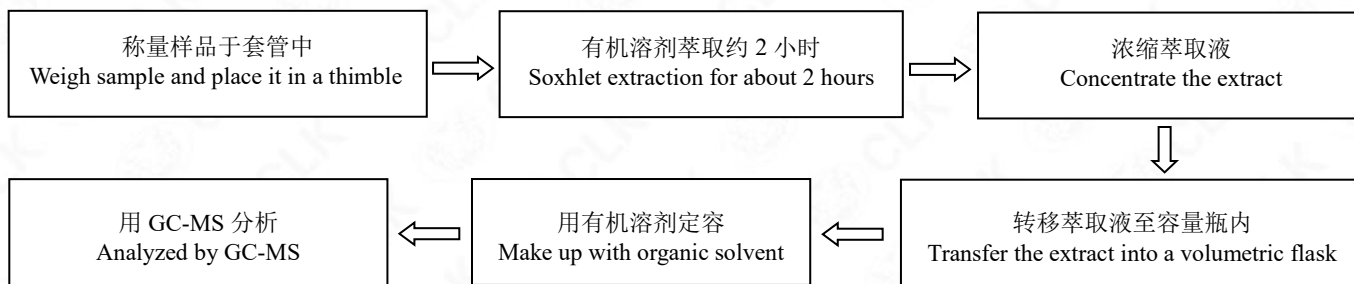
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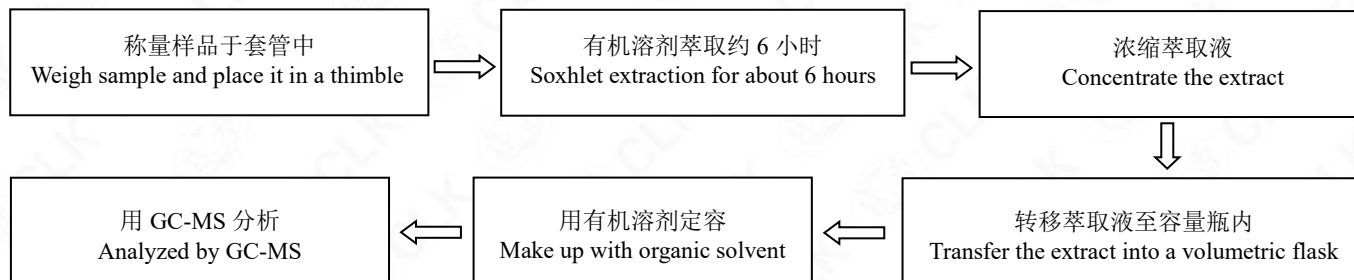
Cr⁶⁺检测流程（金属）（Metallic test process）：



PBBs/PBDEs 检测流程（PBBs/PBDEs test process）：



邻苯二甲酸酯检测流程（Phthalate test process）：



以下空白
Blank Below

1.本检测报告仅对测试样品负责;

The results relate only to the test sample(s);

2.样品及样品信息由申请客户提供;

The sample and sample information are provided by customer;

3.未经本实验室书面批准, 不得部分复制此报告;

This report shall not be duplicated partially except with the written approval of the our laboratory;

4.检测报告无批准人签字及检验检测专用章无效;

The test report is invalid without the signature of the approver and the special seal for inspection&testing;

5.若对检测数据有异议, 可在本报告发出 15 日内提出申诉, 逾期不予受理;

If you have any objections to the test data, please submit an appeal within 15 days from the report date, overdue will not be accepted.

6.未加盖资质认定标志 (CMA) 的报告, 仅作为科研、教学、企业内部质量控制、产品研发等目的用。

The report without the certification mark (CMA) is only used for scientific research, teaching, enterprise internal quality control, product development and other purposes.