Test Report Number: SHAH01820317

Applicant: SHANDONG HUABAO PIGMENT CO., LTD
NO.515 YUSHAN ROAD, LUSHAN INDUSTRIAL PARK, YISHUI COUNTY, LINYI, SHANDONG, CHINA
山东华宝颜料有限公司
山东省沂水县庐山工业园区玉山路 515 号
Attn: GRACE

Date: 21 May, 2025

Sample Description:
One (1) group of submitted sample said to be :

Item Name	:	Pigment Red 122 Pigment Violet 19 RP Pigment Violet 19 BP Pigment Red 185
Item No.	:	PR122 PV19 PV19 PR185
Quantity	:	30G each
Goods Exported To	:	Europe, Southeast Asia, Japan and South Korea
Country Of Origin	:	China
样品描述:		
品名	:	颜料红 122 颜料紫 19 颜料紫 19 颜料红 185
品号	:	PR122 PV19 PV19 PR185
样品数量	:	各 30G
目的地	:	欧洲 东南亚 日韩
原产地	:	中国

****

To be continued
见续页

Authorized By:
Intertek Testing Services Ltd. Zhejiang

Bobo Yao
Assistant General Manager

INTERTEK TESTING SERVICES LTD. ZHEJIANG 浙江天祥质量技术服务有限公司 检验检测专用章 (1)

INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Test Report Number: SHAH01820317

****

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

****

****

检验项目:

按客户要求,详见续页

****

Conclusion:

Tested Components	Standard	Result
Tested Component Of Submitted Sample	Restriction of the use of certain hazardous substance in electrical and electronic equipment (RoHS Directive 2011/65/EU and (EU) 2015/863)	Pass
Tested Component Of Submitted Sample	Restriction of the use of certain hazardous substance in electrical and electronic equipment (RoHS Directive 2011/65/EU and (EU) 2015/863)	Pass

结论:

测试部件	标准	结论
送检样品的测试部件	电子电气设备中有毒有害物质的限量要求 (RoHS 指令2011/65/EU和(EU)2015/863)	合格
送检样品的测试部件	电子电气设备中有毒有害物质的限量要求 (RoHS 指令2011/65/EU和(EU)2015/863)	合格

****

To be continued
见续页

Authorized By:
Intertek Testing Services Ltd. Zhejiang

Bobo Yao
Assistant General Manager

INTERTEK TESTING SERVICES LTD. ZHEJIANG 浙江天祥质量技术服务有限公司 检验检测专用章 (1)

INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01820317

Tests Conducted

1.RoHS Chemical Test

(A) Test Result Summary:

Testing Item	Result			
	(1)	(2)	(3)	(4)
Cadmium (Cd) Content (mg/kg)	ND	ND	ND	ND
Lead (Pb) Content (mg/kg)	ND	ND	ND	ND
Mercury (Hg) Content (mg/kg)	ND	ND	ND	ND
Chromium (VI)(Cr^{6+}) Content (mg/kg)	ND	ND	ND	ND
Chromium (VI)(Cr^{6+}) Result (By Boiling Water Extraction on Metal) ($\mu g/cm^2$)	-	-	-	-
Polybrominated Biphenyls (PBBs) Content (mg/kg)				
Monobromobiphenyl (MonoBB)	ND	ND	ND	ND
Dibromobiphenyl (DiBB)	ND	ND	ND	ND
Tribromobiphenyl (TriBB)	ND	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	ND
Pentabromobiphenyl (PentaBB)	ND	ND	ND	ND
Hexabromobiphenyl (HexaBB)	ND	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	ND
Octabromobiphenyl (OctaBB)	ND	ND	ND	ND
Nonabromobiphenyl (NonaBB)	ND	ND	ND	ND
Decabromobiphenyl (DecaBB)	ND	ND	ND	ND
Polybrominated Diphenyl Ethers (PBDEs) Content (mg/kg)				
Monobromodiphenyl Ether (MonoBDE)	ND	ND	ND	ND
Dibromodiphenyl Ether (DiBDE)	ND	ND	ND	ND
Tribromodiphenyl Ether (TriBDE)	ND	ND	ND	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND	ND	ND	ND
Pentabromodiphenyl Ether (PentaBDE)	ND	ND	ND	ND
Hexabromodiphenyl Ether (HexaBDE)	ND	ND	ND	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND	ND	ND	ND
Octabromodiphenyl Ether (OctaBDE)	ND	ND	ND	ND
Nonabromodiphenyl Ether (NonaBDE)	ND	ND	ND	ND
Decabromodiphenyl Ether (DecaBDE)	ND	ND	ND	ND
Phthalates Content (mg/kg)				
Bis(2-ethylhexyl)phthalate (DEHP)	ND	ND	ND	ND
Butyl benzyl phthalate (BBP)	ND	ND	ND	ND
Dibutyl phthalate (DBP)	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND

ND = Not detected

(B) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)

INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01820317

Tests Conducted

Chromium (VI) (Cr^{6+})	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Phthalates (DEHP, BBP, DBP, DIBP)	0.1% (1000 mg/kg)

The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.

(C) Test Method:

Testing Item	**Testing Method**	**Reporting Limit**
Cadmium (Cd) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES	2 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES	2 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4 Edition 1.1:2017, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES	2 mg/kg
Chromium (VI)(Cr^{6+}) Content	With reference to IEC 62321-7-2 Edition 1.0:2017, by alkaline digestion and determined by UV-VIS Spectrophotometer	10 mg/kg
Chromium (VI) (Cr^{6+}) Content	With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS Spectrophotometer.	Positive(>0.13 μg/cm^2) / Negative(<0.10 μg/cm^2) / Inconclusive(0.10μg/cm^2 -- 0.13 μg/cm^2)
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs) Content	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg
Phthalates (DEHP, BBP, DBP, DIBP) Content	With reference to IEC 62321-8 Edition 1.0:2017, by solvent extraction and determined by GC/MS	100mg/kg

Tested Components：See component list in the last section of this report.

Date Sample Received: May 13, 2025
Testing Period: May 13, 2025 to May 19, 2025

INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

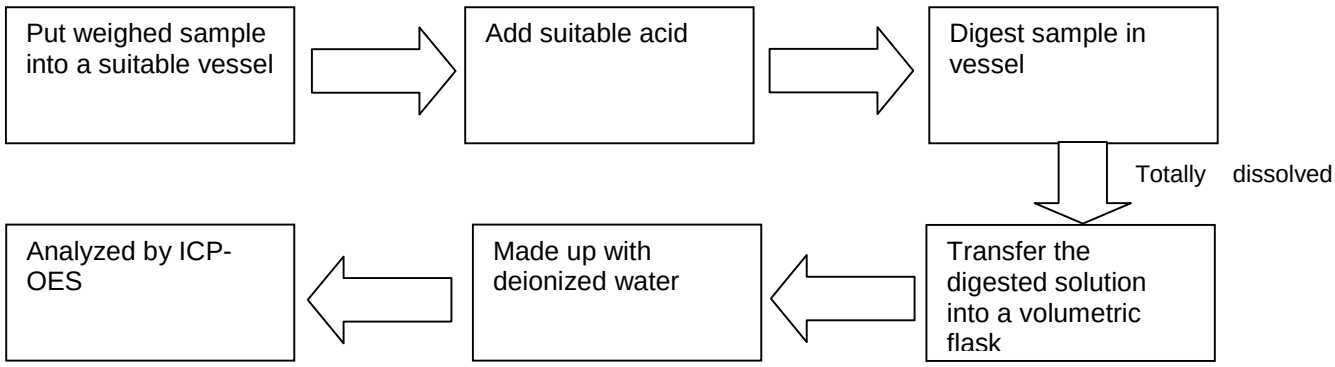
Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

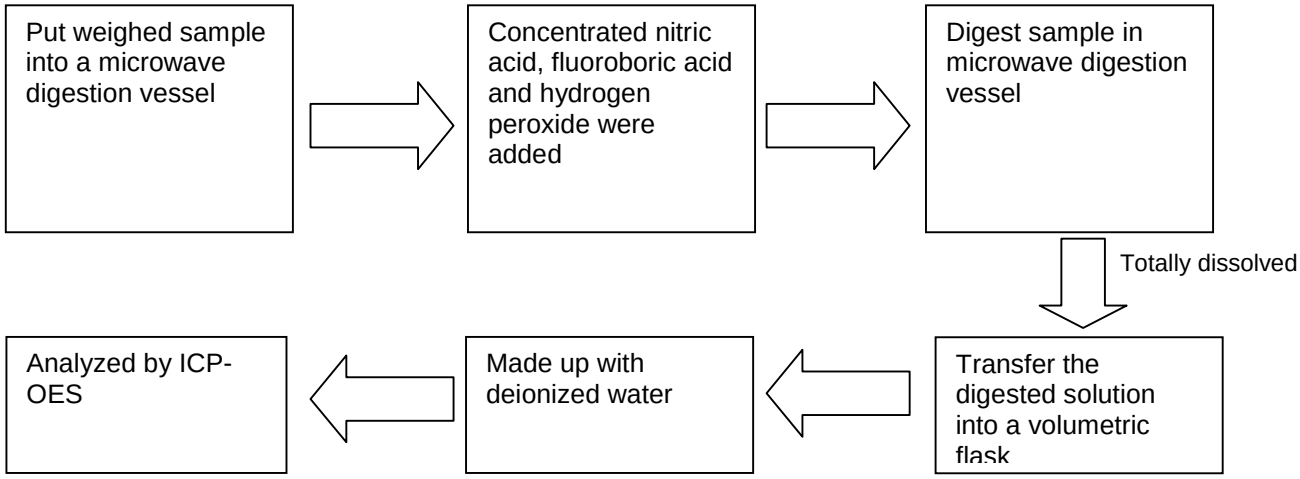
Tests Conducted

(D) Measurement Flowchart:

1. Test for Cd/Pb Contents



2. Test for Hg Content



INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

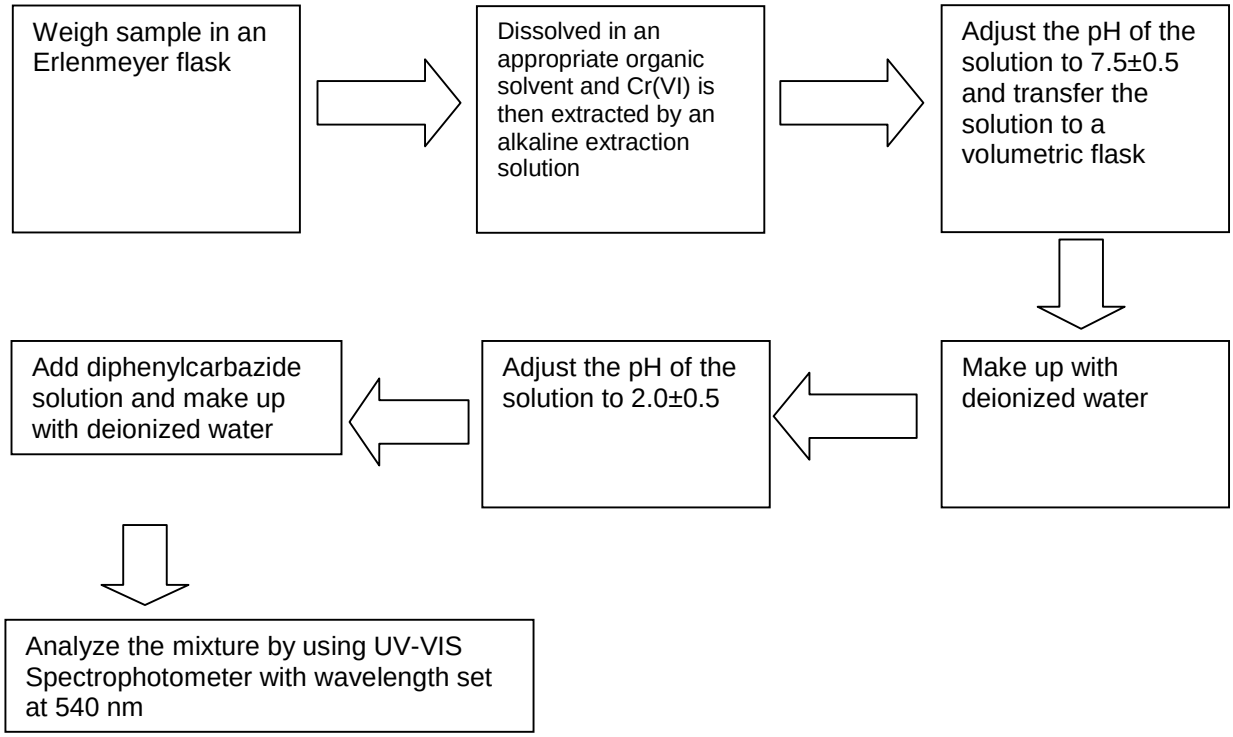
Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

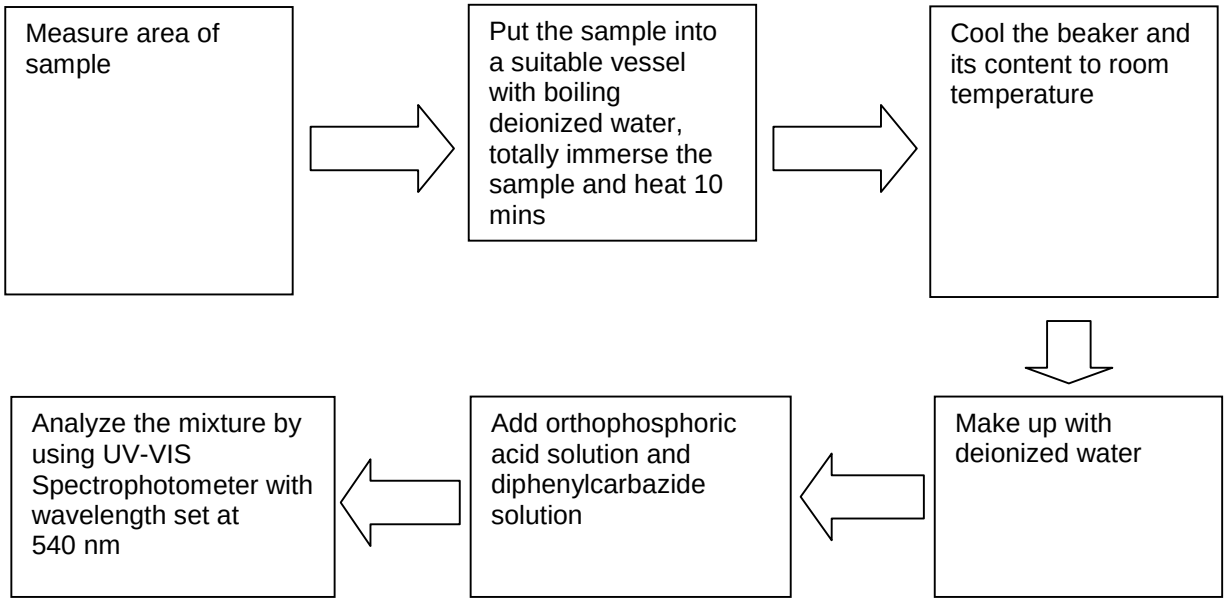
Test Report Number： SHAH01820317

Tests Conducted

3. Test for Chromium (VI) (Cr^{6+}) Content (Non-metal)



4. Test for Chromium (VI) (Cr^{6+}) Content (Boiling Water Extraction)



INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

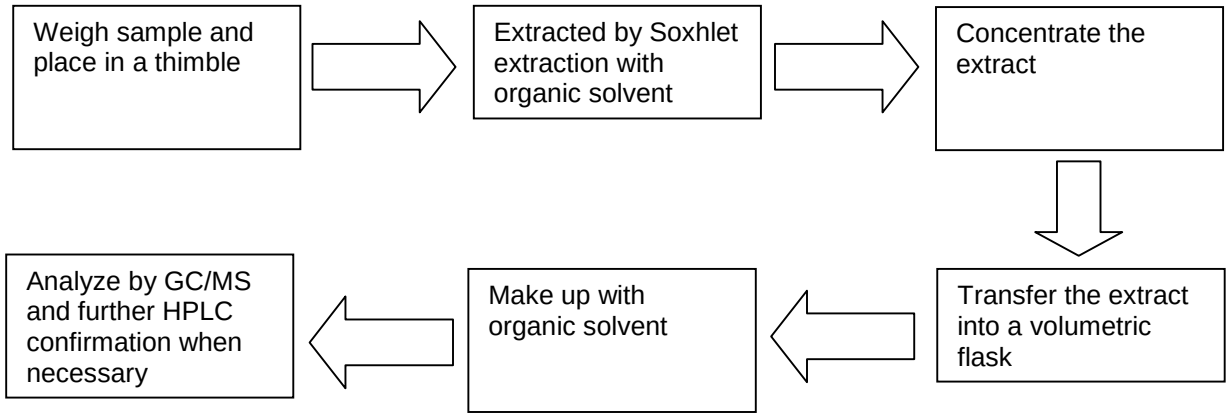
Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

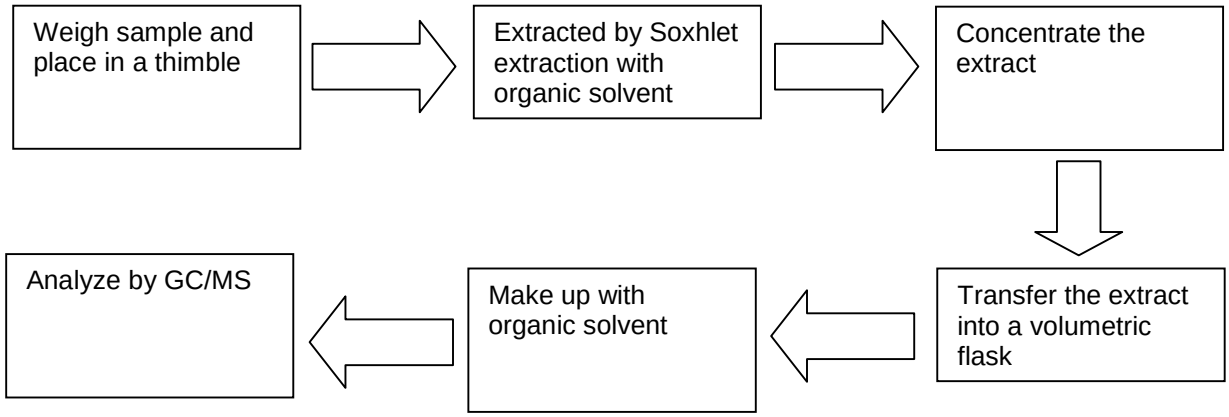
Test Report Number： SHAH01820317

Tests Conducted

5. Test for PBBs/PBDEs Contents



6. Test for Phthalate Contents



INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01820317

Tests Conducted

2.RoHS Chemical Test

(A) Test Result Summary:

Testing Item	Result			
	(1)	(2)	(3)	(4)
Cadmium (Cd) Content (mg/kg)	ND	ND	ND	ND
Lead (Pb) Content (mg/kg)	ND	ND	ND	ND
Mercury (Hg) Content (mg/kg)	ND	ND	ND	ND
Chromium (VI)(Cr^{6+}) Content (mg/kg)	ND	ND	ND	ND
Chromium (VI)(Cr^{6+}) Result (By Boiling Water Extraction on Metal) ($\mu g/cm^2$)	-	-	-	-
Polybrominated Biphenyls (PBBs) Content (mg/kg)				
Monobromobiphenyl (MonoBB)	ND	ND	ND	ND
Dibromobiphenyl (DiBB)	ND	ND	ND	ND
Tribromobiphenyl (TriBB)	ND	ND	ND	ND
Tetrabromobiphenyl (TetraBB)	ND	ND	ND	ND
Pentabromobiphenyl (PentaBB)	ND	ND	ND	ND
Hexabromobiphenyl (HexaBB)	ND	ND	ND	ND
Heptabromobiphenyl (HeptaBB)	ND	ND	ND	ND
Octabromobiphenyl (OctaBB)	ND	ND	ND	ND
Nonabromobiphenyl (NonaBB)	ND	ND	ND	ND
Decabromobiphenyl (DecaBB)	ND	ND	ND	ND
Polybrominated Diphenyl Ethers (PBDEs) Content (mg/kg)				
Monobromodiphenyl Ether (MonoBDE)	ND	ND	ND	ND
Dibromodiphenyl Ether (DiBDE)	ND	ND	ND	ND
Tribromodiphenyl Ether (TriBDE)	ND	ND	ND	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND	ND	ND	ND
Pentabromodiphenyl Ether (PentaBDE)	ND	ND	ND	ND
Hexabromodiphenyl Ether (HexaBDE)	ND	ND	ND	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND	ND	ND	ND
Octabromodiphenyl Ether (OctaBDE)	ND	ND	ND	ND
Nonabromodiphenyl Ether (NonaBDE)	ND	ND	ND	ND
Decabromodiphenyl Ether (DecaBDE)	ND	ND	ND	ND
Phthalates Content (mg/kg)				
Bis(2-ethylhexyl)phthalate (DEHP)	ND	ND	ND	ND
Butyl benzyl phthalate (BBP)	ND	ND	ND	ND
Dibutyl phthalate (DBP)	ND	ND	ND	ND
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND

ND = Not detected

(B) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)

INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01820317

Tests Conducted

Chromium (VI) (Cr^{6+})	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Phthalates (DEHP, BBP, DBP, DIBP)	0.1% (1000 mg/kg)

The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.

(E) Test Method:

Testing Item	**Testing Method**	**Reporting Limit**
Cadmium (Cd) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES	2 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES	2 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4 Edition 1.1:2017, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES	2 mg/kg
Chromium (VI)(Cr^{6+}) Content	With reference to IEC 62321-7-2 Edition 1.0:2017, by alkaline digestion and determined by UV-VIS Spectrophotometer	10 mg/kg
Chromium (VI) (Cr^{6+}) Content	With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS Spectrophotometer.	Positive(>0.13 μg/cm^2) / Negative(<0.10 μg/cm^2) / Inconclusive(0.10μg/cm^2 -- 0.13 μg/cm^2)
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs) Content	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg
Phthalates (DEHP, BBP, DBP, DIBP) Content	With reference to IEC 62321-8 Edition 1.0:2017,by solvent extraction and determined by GC/MS	100mg/kg

Tested Components：See component list in the last section of this report.

Date Sample Received: May 13, 2025
Testing Period: May 13, 2025 to May 19, 2025

INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

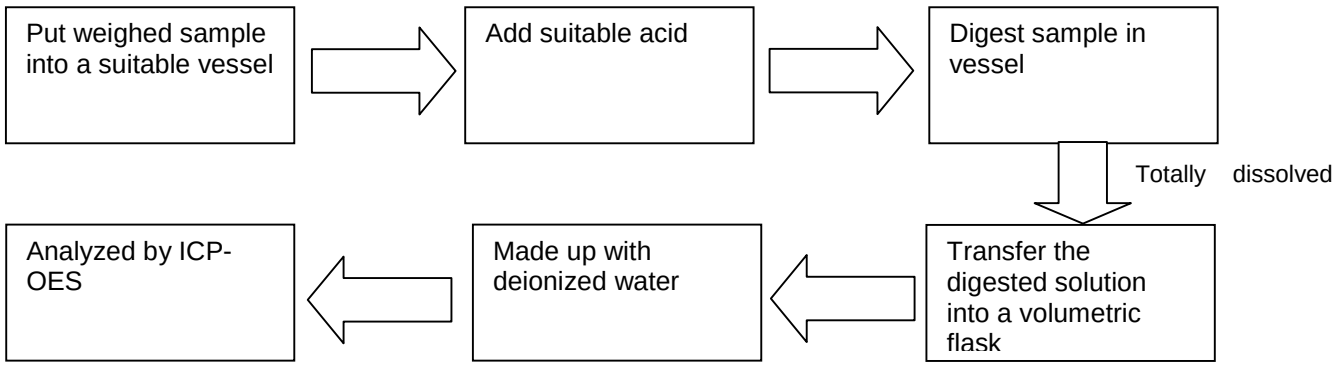
Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

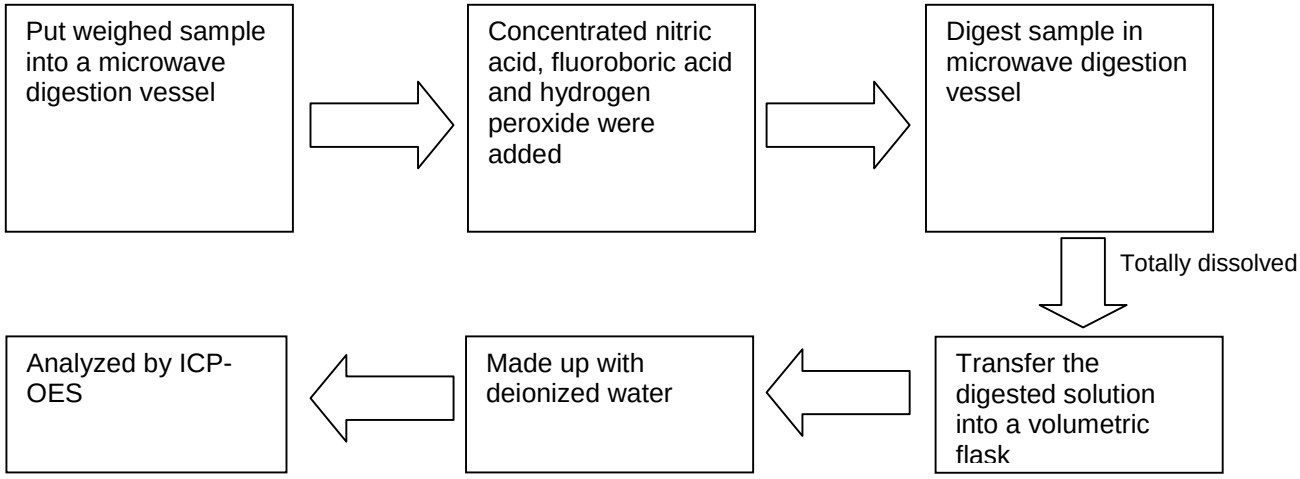
Tests Conducted

(F) Measurement Flowchart:

1. Test for Cd/Pb Contents



2. Test for Hg Content



INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

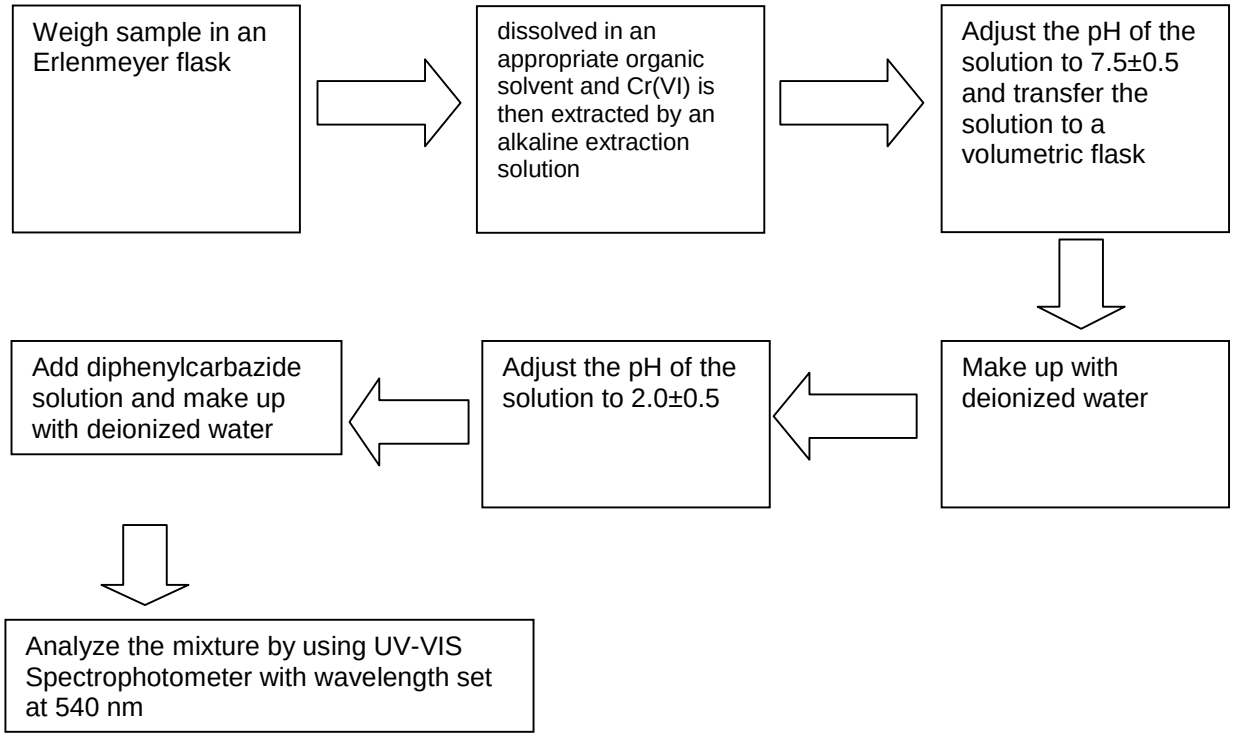
Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

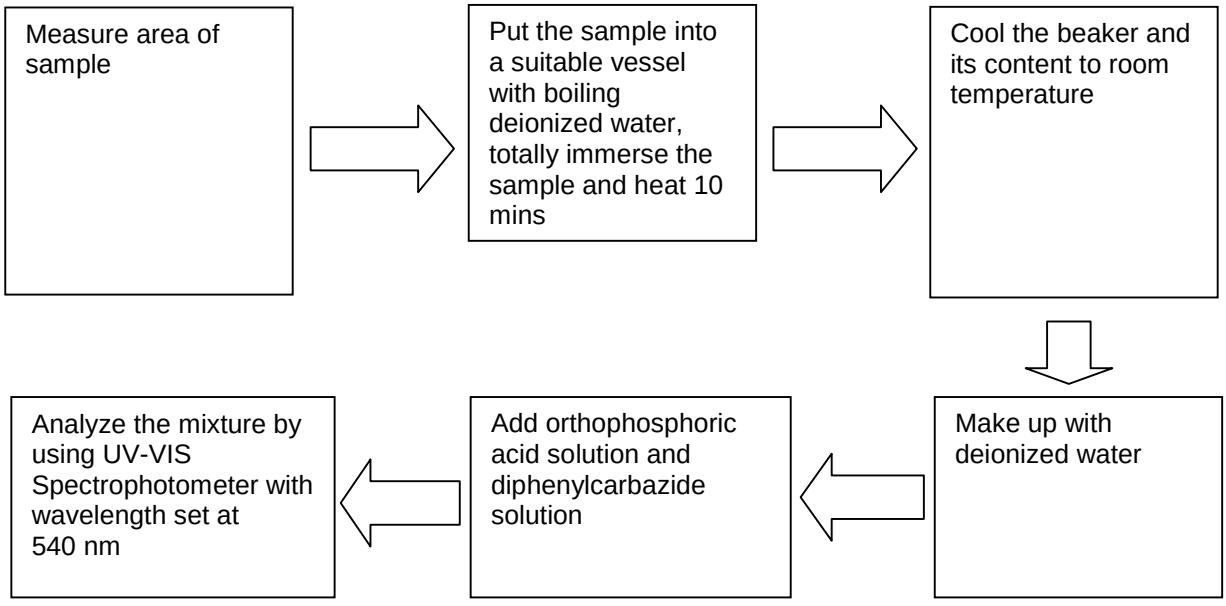
Test Report Number： SHAH01820317

Tests Conducted

3. Test for Chromium (VI) (Cr^{6+}) Content (Non-metal)



4. Test for Chromium (VI) (Cr^{6+}) Content (Boiling Water Extraction)



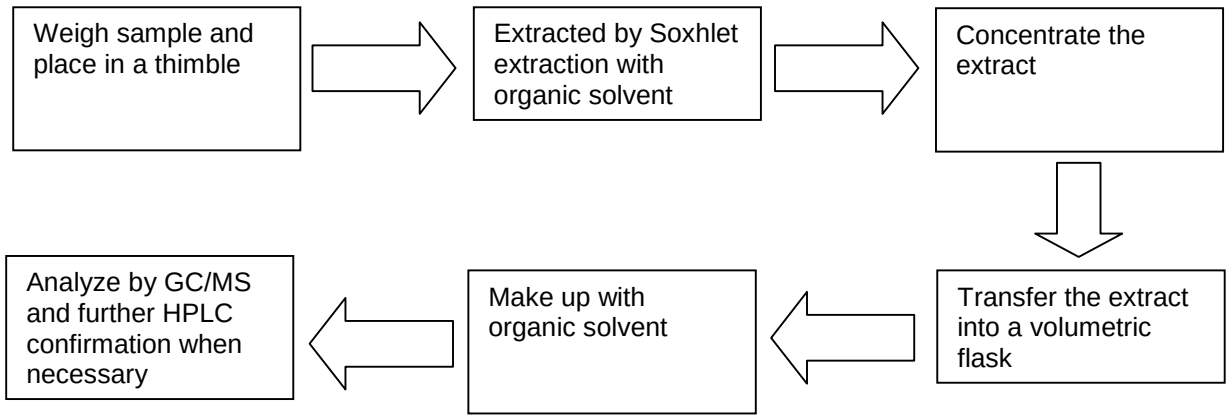
INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

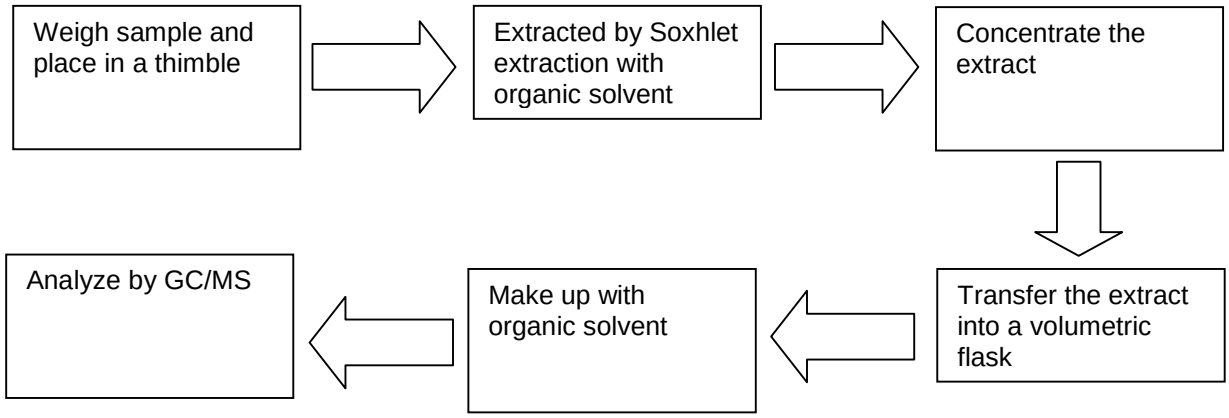
Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Tests Conducted

5. Test for PBBs/PBDEs Contents



6. Test for Phthalate Contents



INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01820317

Tests Conducted

3.RoHS 化学测试

(A) 测试结果:

测试项目	结果			
	(1)	(2)	(3)	(4)
镉(Cd)含量(mg/kg)	ND	ND	ND	ND
铅(Pb)含量(mg/kg)	ND	ND	ND	ND
汞(Hg)含量(mg/kg)	ND	ND	ND	ND
六价铬(Cr^{6+})含量(mg/kg)	ND	ND	ND	ND
六价铬(Cr^{6+})结果(金属材质的沸水抽提测试)(μg/cm^2)	-	-	-	-
多溴联苯(PBBs)含量(mg/kg)				
一溴联苯（MonoBB）	ND	ND	ND	ND
二溴联苯(DiBB)	ND	ND	ND	ND
三溴联苯(TriBB)	ND	ND	ND	ND
四溴联苯(TetraBB)	ND	ND	ND	ND
五溴联苯(PentaBB)	ND	ND	ND	ND
六溴联苯(HexaBB)	ND	ND	ND	ND
七溴联苯(HeptaBB)	ND	ND	ND	ND
八溴联苯(OctaBB)	ND	ND	ND	ND
九溴联苯(NonaBB)	ND	ND	ND	ND
十溴联苯(DecaBB)	ND	ND	ND	ND
多溴联苯醚(PBDEs)含量(mg/kg)				
一溴联苯醚(MonoBDE)	ND	ND	ND	ND
二溴联苯醚(DiBDE)	ND	ND	ND	ND
三溴联苯醚(TriBDE)	ND	ND	ND	ND
四溴联苯醚(TetraBDE)	ND	ND	ND	ND
五溴联苯醚(PentaBDE)	ND	ND	ND	ND
六溴联苯醚(HexaBDE)	ND	ND	ND	ND
七溴联苯醚(HeptaBDE)	ND	ND	ND	ND
八溴联苯醚(OctaBDE)	ND	ND	ND	ND
九溴联苯醚(NonaBDE)	ND	ND	ND	ND
十溴联苯醚(DecaBDE)	ND	ND	ND	ND
邻苯二甲酸酯含量(mg/kg)				
邻苯二甲酸二(2-乙基己基)酯(DEHP)	ND	ND	ND	ND
邻苯二甲酸丁酯苄酯(BBP)	ND	ND	ND	ND
邻苯二甲酸二丁酯(DBP)	ND	ND	ND	ND
邻苯二甲酸二异丁酯(DIBP)	ND	ND	ND	ND

ND = 未被检出

INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01820317

Tests Conducted

(B) RoHS 指令要求:

限制物质	最大限量
镉(Cd)	0.01% (100 mg/kg)
铅(Pb)	0.1% (1000 mg/kg)
汞(Hg)	0.1% (1000 mg/kg)
六价铬(Cr^{6+})	0.1% (1000 mg/kg)
多溴联苯(PBBs)	0.1% (1000 mg/kg)
多溴联苯醚(PBDEs)	0.1% (1000 mg/kg)
邻苯二甲酸酯(DEHP, BBP, DBP, DIBP)	0.1% (1000 mg/kg)

最大限量引自 2011/65/EU 和(EU)2015/863 关于对均质物料的要求。

(C) 测试方法:

测试项目	测试方法	报告极限
镉(Cd)含量	参考 IEC 62321-5 Edition 1.0:2013，采用酸消化的方法直至样品完全消解，用电感耦合等离子体氩气原子发射光谱仪测定。	2 mg/kg
铅(Pb)含量	参考 IEC 62321-5 Edition 1.0:2013，采用酸消化的方法直至样品完全消解，用电感耦合等离子体氩气原子发射光谱仪测定。	2 mg/kg
汞(Hg)含量	参考 IEC 62321-4 Edition 1.1:2017，采用酸消化的方法直至样品完全消解，用电感耦合等离子体氩气原子发射光谱仪测定。	2 mg/kg
六价铬(Cr^{6+})含量	参考 IEC 62321-7-2 Edition 1.0:2017，使用合适的有机溶剂溶解且用碱液萃取样品，再用紫外-可见分光光度计测定。	10 mg/kg
六价铬(Cr^{6+})含量	参考 IEC 62321-7-1 Edition 1.0:2015，用沸水抽提，再用紫外-可见分光光度计测定。	阳性 (>0.13 μg/cm^2) / 阴性 (<0.10 μg/cm^2) / 不确定 (0.10μg/cm^2 – 0.13 μg/cm^2)
多溴联苯(PBBs)和多溴联苯醚(PBDEs)含量	参考 IEC 62321-6 Edition 1.0:2015，使用适当溶剂进行抽提，再用气质联用仪测定，必要时用高效液相色谱仪进一步确认。	5 mg/kg
邻苯二甲酸酯(DEHP, BBP, DBP, DIBP) 含量	参考 IEC 62321-8 Edition 1.0:2017，使用适当溶剂进行抽提，再用气质联用仪测定。	100mg/kg

测试部件：见报告最后部分部件列表。

收样日期：2025 年 5 月 13 日
测试周期：2025 年 5 月 13 日至 2025 年 5 月 19 日

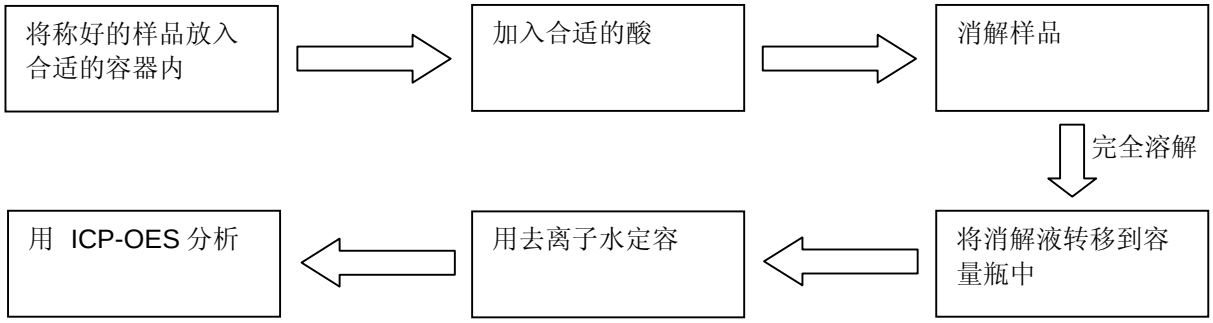
INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

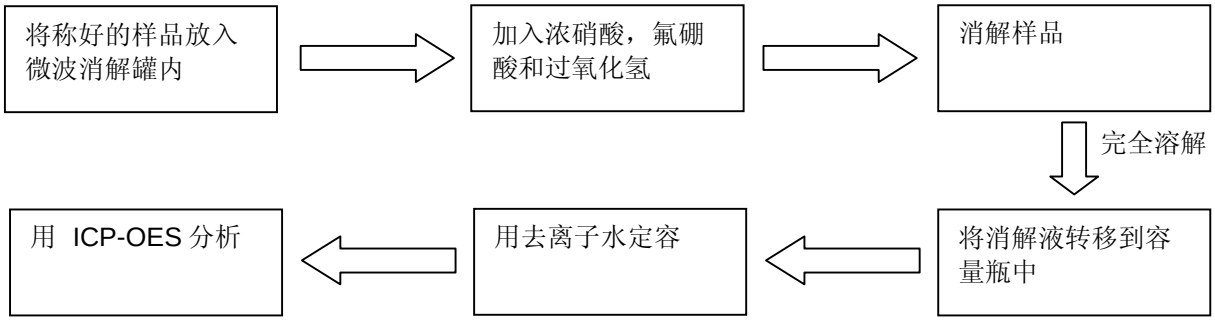
Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

（D） 测试流程图：

1. 镉/铅(Cd/Pb)含量的测试：



2. 汞(Hg)含量的测试：



INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

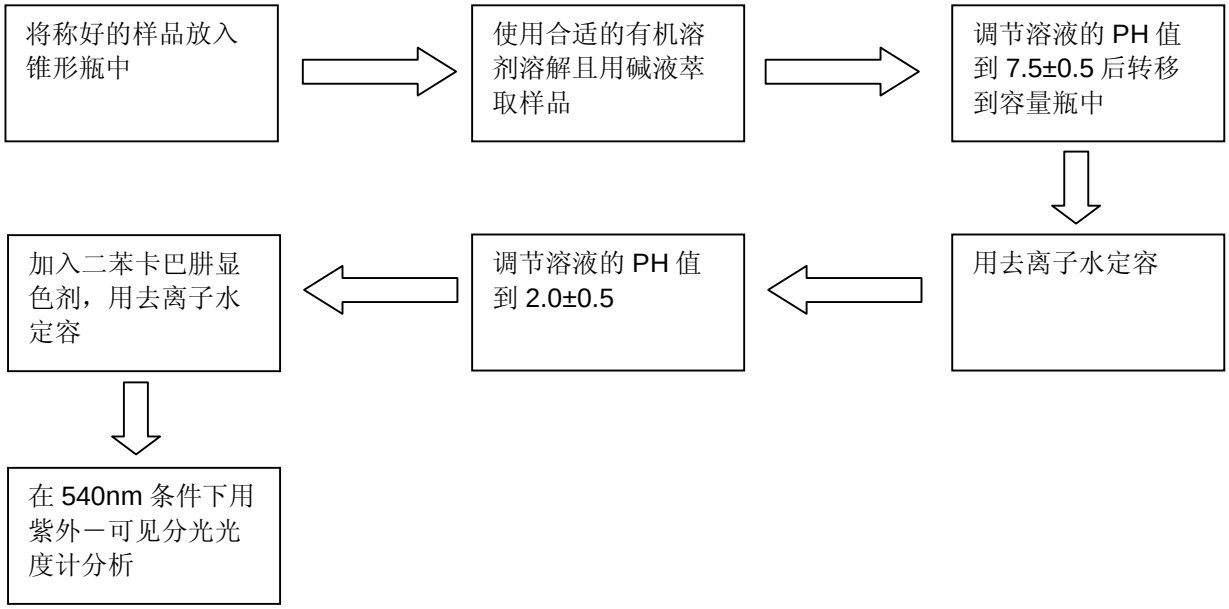
Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

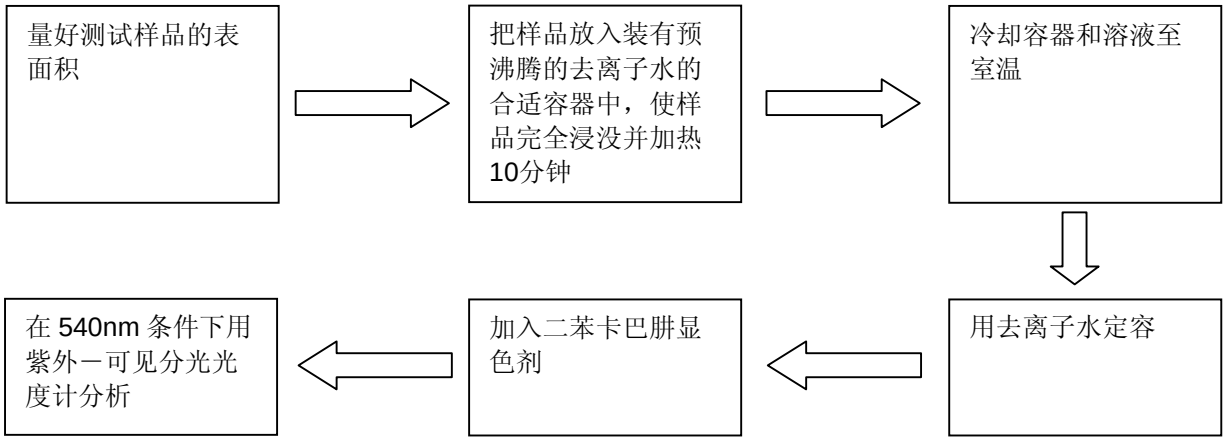
Test Report Number： SHAH01820317

Tests Conducted

3.六价铬(Cr^{6+})含量的测试（非金属）：



4.六价铬(Cr^{6+})含量的测试（沸水提取）：



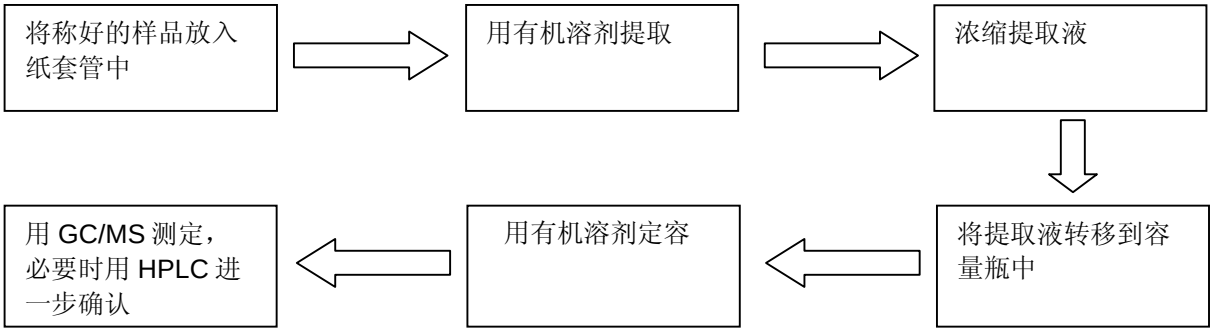
INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

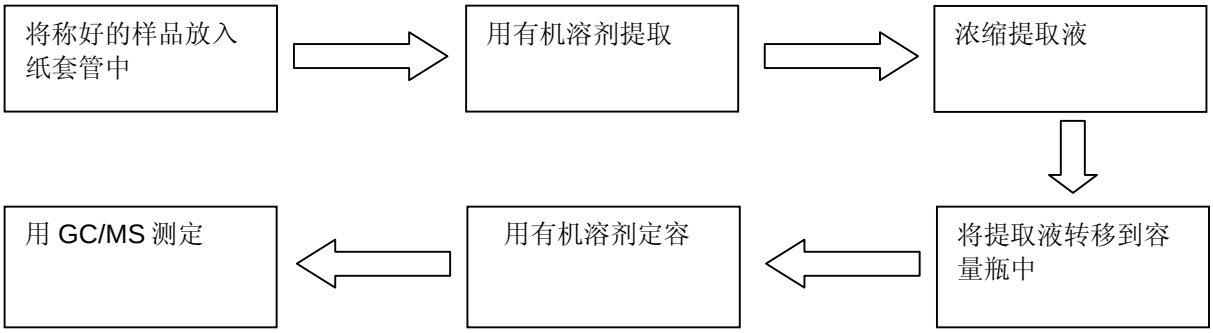
Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Tests Conducted

5. 多溴联苯/多溴联苯醚(PBBs/PBDEs)含量的测试：



6. 邻苯二甲酸酯(DEHP, BBP, DBP, DIBP) 含量的测试：



INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01820317

Tests Conducted

4.RoHS 化学测试

(A) 测试结果:

测试项目	结果			
	(1)	(2)	(3)	(4)
镉(Cd)含量(mg/kg)	ND	ND	ND	ND
铅(Pb)含量(mg/kg)	ND	ND	ND	ND
汞(Hg)含量(mg/kg)	ND	ND	ND	ND
六价铬(Cr^{6+})含量(mg/kg)	ND	ND	ND	ND
六价铬(Cr^{6+})结果(金属材质的沸水抽提测试)($\mu g/cm^2$)	-	-	-	-
多溴联苯(PBBs)含量(mg/kg)				
一溴联苯（MonoBB）	ND	ND	ND	ND
二溴联苯(DiBB)	ND	ND	ND	ND
三溴联苯(TriBB)	ND	ND	ND	ND
四溴联苯(TetraBB)	ND	ND	ND	ND
五溴联苯(PentaBB)	ND	ND	ND	ND
六溴联苯(HexaBB)	ND	ND	ND	ND
七溴联苯(HeptaBB)	ND	ND	ND	ND
八溴联苯(OctaBB)	ND	ND	ND	ND
九溴联苯(NonaBB)	ND	ND	ND	ND
十溴联苯(DecaBB)	ND	ND	ND	ND
多溴联苯醚(PBDEs)含量(mg/kg)				
一溴联苯醚(MonoBDE)	ND	ND	ND	ND
二溴联苯醚(DiBDE)	ND	ND	ND	ND
三溴联苯醚(TriBDE)	ND	ND	ND	ND
四溴联苯醚(TetraBDE)	ND	ND	ND	ND
五溴联苯醚(PentaBDE)	ND	ND	ND	ND
六溴联苯醚(HexaBDE)	ND	ND	ND	ND
七溴联苯醚(HeptaBDE)	ND	ND	ND	ND
八溴联苯醚(OctaBDE)	ND	ND	ND	ND
九溴联苯醚(NonaBDE)	ND	ND	ND	ND
十溴联苯醚(DecaBDE)	ND	ND	ND	ND
邻苯二甲酸酯含量(mg/kg)				
邻苯二甲酸二(2-乙基己基)酯(DEHP)	ND	ND	ND	ND
邻苯二甲酸丁酯苄酯(BBP)	ND	ND	ND	ND
邻苯二甲酸二丁酯(DBP)	ND	ND	ND	ND
邻苯二甲酸二异丁酯(DIBP)	ND	ND	ND	ND

ND = 未被检出

INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01820317

Tests Conducted

(B) RoHS 指令要求:

限制物质	最大限量
镉(Cd)	0.01% (100 mg/kg)
铅(Pb)	0.1% (1000 mg/kg)
汞(Hg)	0.1% (1000 mg/kg)
六价铬(Cr^{6+})	0.1% (1000 mg/kg)
多溴联苯(PBBs)	0.1% (1000 mg/kg)
多溴联苯醚(PBDEs)	0.1% (1000 mg/kg)
邻苯二甲酸酯(DEHP, BBP, DBP, DIBP)	0.1% (1000 mg/kg)

最大限量引自 2011/65/EU 和(EU)2015/863 关于对均质物料的要求。

(C) 测试方法:

测试项目	测试方法	报告极限
镉(Cd)含量	参考 IEC 62321-5 Edition 1.0:2013，采用酸消化的方法直至样品完全消解，用电感耦合等离子体氩气原子发射光谱仪测定。	2 mg/kg
铅(Pb)含量	参考 IEC 62321-5 Edition 1.0:2013，采用酸消化的方法直至样品完全消解，用电感耦合等离子体氩气原子发射光谱仪测定。	2 mg/kg
汞(Hg)含量	参考 IEC 62321-4 Edition 1.1:2017，采用酸消化的方法直至样品完全消解，用电感耦合等离子体氩气原子发射光谱仪测定。	2 mg/kg
六价铬(Cr^{6+})含量	参考 IEC 62321-7-2 Edition 1.0:2017，使用合适的有机溶剂溶解且用碱液萃取样品，再用紫外-可见分光光度计测定。	10 mg/kg
六价铬(Cr^{6+})含量	参考 IEC 62321-7-1 Edition 1.0:2015，用沸水抽提，再用紫外-可见分光光度计测定。	阳性(>0.13 μg/cm^2) / 阴性(<0.10 μg/cm^2) / 不确定(0.10μg/cm^2--0.13 μg/cm^2)
多溴联苯(PBBs)和多溴联苯醚(PBDEs)含量	参考 IEC 62321-6 Edition 1.0:2015，使用适当溶剂进行抽提，再用气质联用仪测定，必要时用高效液相色谱仪进一步确认。	5 mg/kg
邻苯二甲酸酯(DEHP, BBP, DBP, DIBP)含量	参考 IEC 62321-8 Edition 1.0:2017，使用适当溶剂进行抽提，再用气质联用仪测定。	100mg/kg

测试部件：见报告最后部分部件列表。

收样日期：2025 年 5 月 13 日
测试周期：2025 年 5 月 13 日至 2025 年 5 月 19 日

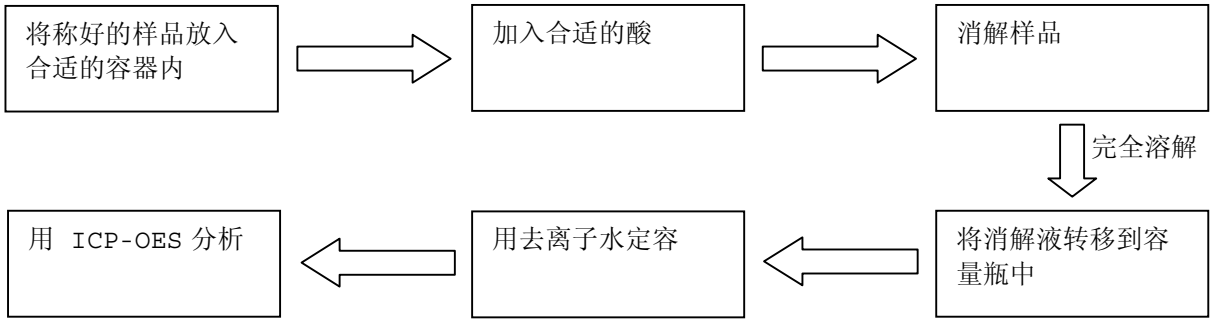
INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

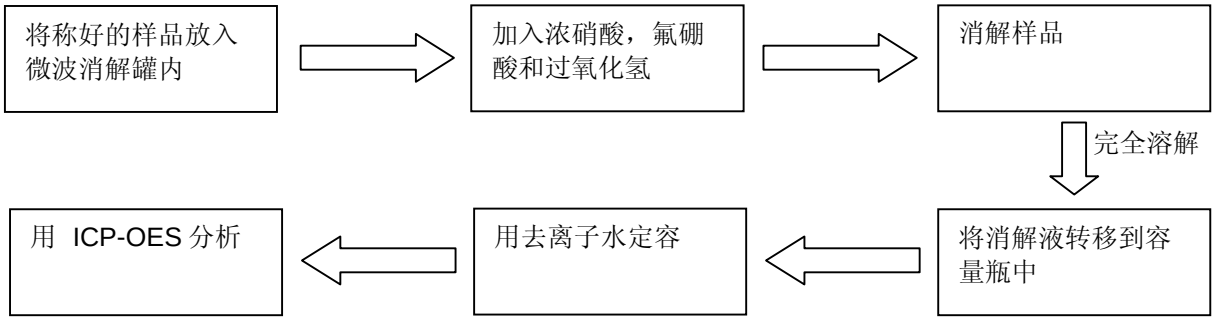
Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

（D） 测试流程图：

1. 镉/铅(Cd/Pb)含量的测试：



2. 汞(Hg)含量的测试：



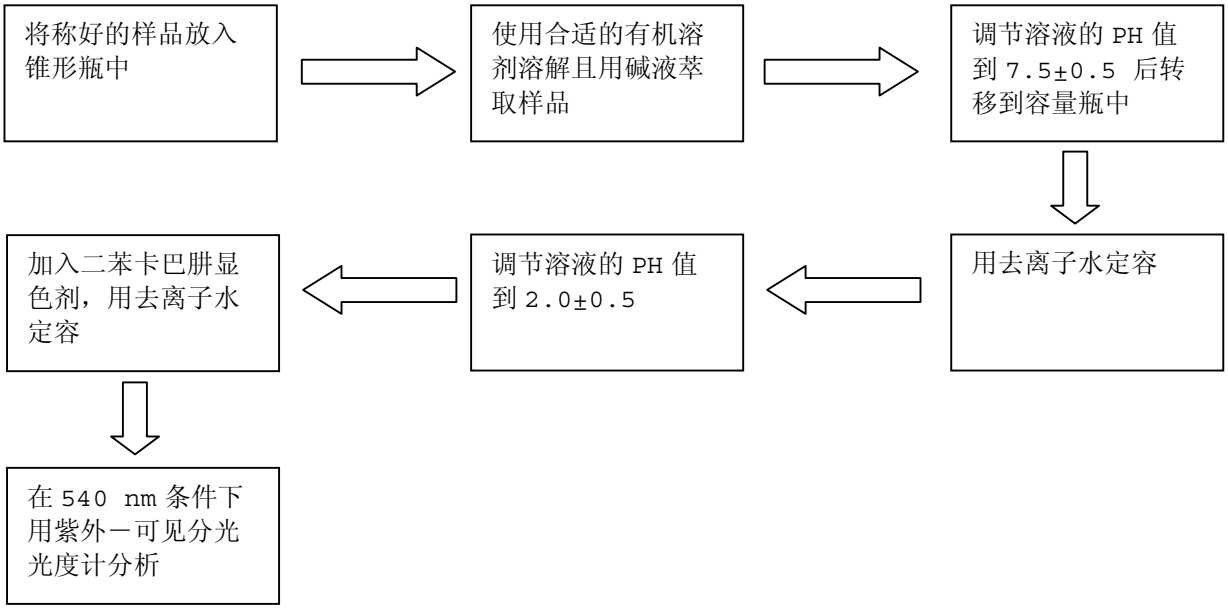
INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

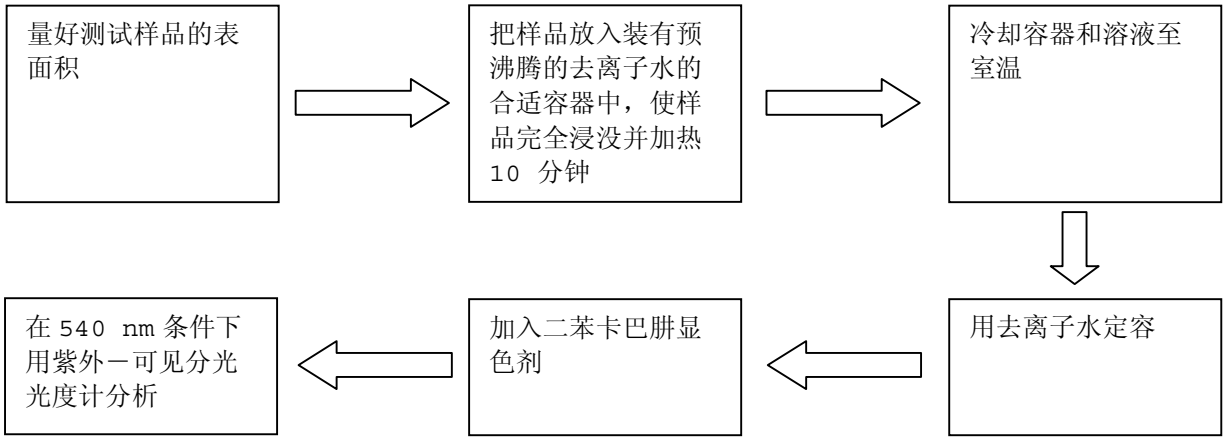
Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Tests Conducted

3.六价铬(Cr^{6+})含量的测试（非金属）：



4.六价铬(Cr^{6+})含量的测试（沸水提取）：



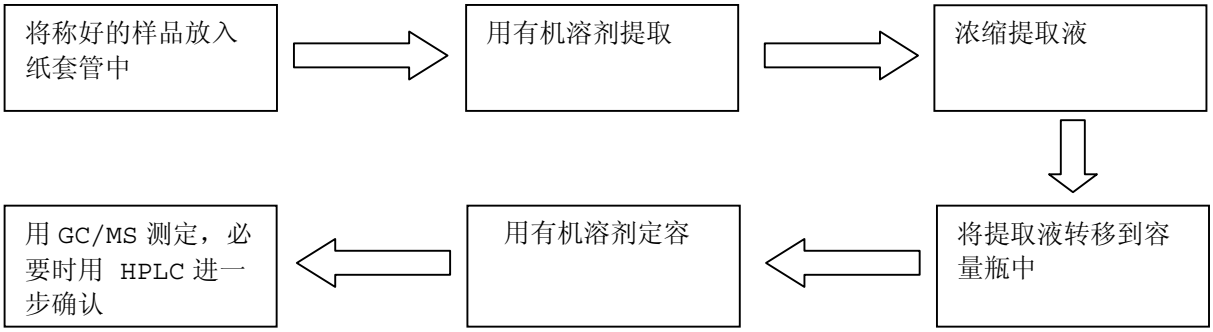
INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

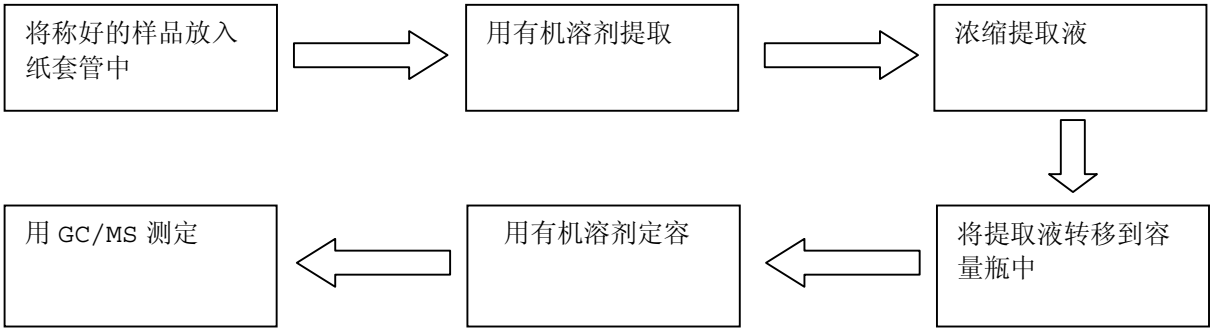
Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Tests Conducted

5. 多溴联苯/多溴联苯醚(PBBs/PBDEs)含量的测试：



6. 邻苯二甲酸酯(DEHP, BBP, DBP, DIBP) 含量的测试：



INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01820317

Tests Conducted

Tested components:

(1) Red powder (185)
(2) Violet powder (19 BP)
(3) Amaranth powder (122)
(4) Rose red powder (19 RP)

部件列表：

(1) 红色粉末（185）
(2) 紫罗兰色粉末 (19 BP)
(3) 紫红色粉末 (122)
(4) 玫红色粉末 (19 RP)

INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01820317

Tests Conducted



Picture 1: Submitted sample
图片 1：送检样品

****

End of report
报告结束

备注：本报告所出具的检测数据及结果在中华人民共和国境内仅供特定委托方用于科研、教学、内部质量控制、产品研发等目的参考使用。

Remark: The testing data and result issued by this report is just for scientific research, teaching, internal quality control, product research and development etc. on reference only in the territory of the People's Republic of China.

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.

This report shall not be reproduced except in full, without written approval of the laboratory.

INTERTEK TESTING SERVICES LTD. ZHEJIANG
浙江天祥质量技术服务有限公司

Building No.2, Juanhu Science and Technology Innovation Park, No. 500 East Shuiyueting Road, Haining City, Zhejiang Province,China. 314400
中国浙江省海宁市水月亭东路 500 号鹃湖科技创新园 2 幢 314400

Tel: +86 573 87137200
Zip:314400
www.intertek.com
www.intertek.com.cn