

检测 报 告
TEST REPORT

报告编号 (No.) : UTS25120107M04 报告日期 (Report Date) : 2025/12/12

委托单位/Client : 昆山安普琪工程塑料有限公司/昆山金彩达工程塑胶有限公司
KUNSHAN ANPUQI ENGINEERING PLASTICS CO.,LTD/
KUNSHAN JINCAIDA ENGINEERING PLASTICS CO., LTD

地 址/Address : 昆山市张浦镇俱进路 15 号
No.15, jujin Road,Zhangpu Town,Kunshan City

以下样品信息由申请人提供及确认:

The following sample(s) was/were submitted and identified on behalf of the client as:

样品名称/Sample Name : 塑料粒子/Plastic Pellets

材 料/Material : PC+ABS 黑色/PC+ABS black

型 号/Model : 参见下一页/Please refer to next page(s)

接样日期/Receiving Date : 2025/12/08

检测项目/Test Item : RoHS 2.0 & 卤素/Halogen

结 论/Conclusion : 1. 申请人所提供样品的检测结果符合欧盟 RoHS 指令 2011/65/EU 附录 II 及其修订指令(EU)2015/863 的限值要求。/Based on the analysis of the submitted sample, the results meet the requirements of EU RoHS Directive 2011/65/EU Annex II and its amending Directive (EU)2015/863.

2. 申请人所提供样品的检测结果符合 IEC 61249-2-21:2003 的要求。/Based on the analysis of the submitted sample, the results meet the requirements of IEC 61249-2-21:2003.

签 发
Approved by 樊建红 授权签字人审 核
Reviewed by 马林编 制
Prepared by 闵丹丹

Page 1 of 6

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江苏省优联检测技术服务有限公司

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以下样品信息由申请人提供及确认:

The following sample(s) was/were submitted and identified on behalf of the client as:

| 材料/Material | 型号/Model |
|----------------------------|---|
| PC+ABS 黑色/ PC+ABS black | PC540(A9319-71,A9258-71),PC365(A9345-71),GN5007FL(A9284-71),C6600(A9290-71,A6043-71),GN5001RF,GN5001RF(EU184),GN5001RFH,GN5001RFG(A9315-71),FR3008,FR3008-901510,FR3021,FR3020,FR3002,FR3000,FR3010,FR3010-BBS910(A9311-71),FR2000,FR2010,FR1514,FR3015,KU2-1514,FR3040,FR630,FR6005(A9300-71),T45,T45PG,T65,T85,PC365,TMB1615,MB8800,MB1700,MB1800,CX7240,C7230P,C6600(701),C6200,C2950,C1200HF,NH1000T,NH1150,NH1015,NH1015V,GC1017,5200HF,TN7000#,TN7500#,TN3713#,TN3715#,AC3100,AC2300,AC2500.FR3013,C2950(3061-71)(4094-71)(8156-71) |

1、测试标准/Test Standard(s)

IEC62321-5:2013;IEC62321-4:2013+AMD1:2017CSV;IEC62321-7-2:2017;IEC62321-6:2015;IEC62321-8:2017; EN 14582:2016

2、测试日期/Test Date(s)

2025/12/09-2025/12/10

3、测试设备/Test Equipment(s)

| 设备名称 Test Equipment | 设备编号 Equipment Number | 校准有效期 Calibration Period of Validity |
|------------------------|--------------------------|---|
| 等离子体发射光谱仪 ICP-OES | M-1-584 | 2025/12/14 |
| 紫外可见分光光度计 UV-vis | M-1-622 | 2025/12/12 |
| 气相色谱质谱联用仪 GC-MS | M-1-583 | 2025/12/14 |
| 气相色谱质谱联用仪 GC-MS | M-1-582 | 2025/12/14 |
| 离子色谱仪 IC | E-1-1038 | 2026/11/21 |

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检测报告

TEST REPORT

报告编号 (No.) : UTS25120107M04 报告日期 (Report Date) : 2025/12/12

4、测试结果/Test Result(s)

4.1 RoHS 2.0

| 检测项目 Test Items | 检测方法 Methods | 方法检测限 MDL (mg/kg) | 检测结果 Results (mg/kg) | 法规限值* Limits (mg/kg) |
|--|-----------------|-------------------------|----------------------------|----------------------------|
| 铅/Pb | M1 | 2 | N.D. | 1000 |
| 镉/Cd | | 2 | N.D. | 100 |
| 汞/Hg | M2 | 2 | N.D. | 1000 |
| 六价铬/Cr (VI) | M3 | 8 | N.D. | 1000 |
| 一溴联苯/Monobromobiphenyl (MonoBB) | M4 | 5 | N.D. | --- |
| 二溴联苯/Dibromobiphenyl (DiBB) | | 5 | N.D. | --- |
| 三溴联苯/Tribromobiphenyl (TriBB) | | 5 | N.D. | --- |
| 四溴联苯/Tetrabromobiphenyl (TetraBB) | | 5 | N.D. | --- |
| 五溴联苯/Pentabromobiphenyl (PentaBB) | | 5 | N.D. | --- |
| 六溴联苯/Hexabromobiphenyl (HexaBB) | | 5 | N.D. | --- |
| 七溴联苯/Heptabromobiphenyl (HeptaBB) | | 5 | N.D. | --- |
| 八溴联苯/Octabromobiphenyl (OctaBB) | | 5 | N.D. | --- |
| 九溴联苯/Nonabromobiphenyl (NonaBB) | | 5 | N.D. | --- |
| 十溴联苯/Decabromobiphenyl (DecaBB) | | 5 | N.D. | --- |
| 上述多溴联苯总和/Total PBBs sum of above | | --- | N.D. | 1000 |
| 一溴二苯醚/Monobromodiphenyl ether (MonoBDE) | | 5 | N.D. | --- |
| 二溴二苯醚/Dibromodiphenyl ether (DiBDE) | | 5 | N.D. | --- |
| 三溴二苯醚/Tribromodiphenyl ether (TriBDE) | | 5 | N.D. | --- |
| 四溴二苯醚/Tetrabromodiphenyl ether (TetraBDE) | | 5 | N.D. | --- |
| 五溴二苯醚/Pentabromodiphenyl ether (PentaBDE) | | 5 | N.D. | --- |
| 六溴二苯醚/Hexabromodiphenyl ether (HexaBDE) | | 5 | N.D. | --- |
| 七溴二苯醚/Heptabromodiphenyl ether (HeptaBDE) | | 5 | N.D. | --- |
| 八溴二苯醚/Octabromodiphenyl ether (OctaBDE) | | 5 | N.D. | --- |
| 九溴二苯醚/Nonabromodiphenyl ether (NonaBDE) | | 5 | N.D. | --- |
| 十溴二苯醚/Decabromodiphenyl ether (DecaBDE) | 5 | N.D. | --- | |
| 上述多溴二苯醚总和/Total PBDEs sum of above | --- | N.D. | 1000 | |
| 邻苯二甲酸二丁酯/Dibutyl Phthalate (DBP) | M5 | 30 | N.D. | 1000 |
| 邻苯二甲酸丁基苯基酯/Benzylbutyl Phthalate (BBP) | | 30 | N.D. | 1000 |
| 邻苯二甲酸二(2-乙基己基)酯 /Di-(2-ethylhexyl)Phthalate (DEHP) | | 30 | N.D. | 1000 |
| 邻苯二甲酸二异丁酯/Diisobutyl phthalate(DIBP) | | 30 | N.D. | 1000 |

检 测 报 告

TEST REPORT

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注意/Remark : *报告中述及的法规限值根据是欧盟 RoHS 指令 2011/65/EU 附录 II 及其修订指令 (EU)2015/863 的限值要求。/The Limits are based on the requirements of EU RoHS Directive 2011/65/EU Annex II and its amending Directive (EU)2015/863.

4.2 卤素/Halogen

| 检测项目 Test Items | 检测方法 Methods | 方法检测限 MDL (mg/kg) | 检测结果 Results (mg/kg) | 限值** Limits (mg/kg) |
|--------------------|-----------------|-------------------------|----------------------------|---------------------------|
| 氟/Fluorine (F) | M6 | 30 | 1182.30 | --- |
| 氯/Chlorine (Cl) | | 30 | N.D. | 900 |
| 溴/Bromine (Br) | | 30 | N.D. | 900 |
| 碘/Iodine (I) | | 30 | N.D. | --- |
| 总计/Total (Cl+Br) | | --- | N.D. | 1500 |

注意/Remark : **报告中述及的限值根据是 IEC 61249-2-21:2003 的要求。/The Limits are based on the requirements of IEC 61249-2-21:2003.

- 备注 1) “---” = 未明确规定/Not Regulated.
/Note : 2) N.D. = 未检出, 小于方法检测限/Not detected, less than MDL.
3) M1: 参考 IEC 62321-5: 2013, 采用电感耦合等离子体发射光谱仪进行测定。
With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.
4) M2: 参考 IEC 62321-4: 2013+AMD1: 2017CSV, 采用电感耦合等离子体发射光谱仪进行测定。
With reference to IEC 62321-4: 2013+AMD1: 2017CSV, analysis was performed by ICP-OES.
5) M3: 参考 IEC 62321-7-2: 2017, 采用紫外-可见分光光度计进行测定。
With reference to IEC 62321-7-2: 2017, analysis was performed by UV-Vis.
6) M4: 参考 IEC 62321-6: 2015, 采用气相色谱-质谱联用仪进行测定。
With reference to IEC 62321-6: 2015, analysis was performed by GC-MS.
7) M5: 参考 IEC 62321-8: 2017, 采用气相色谱-质谱联用仪进行测定。
With reference to IEC 62321-8: 2017, analysis was performed by GC-MS.
8) M6: 参考 EN 14582: 2016, 采用离子色谱法(IC)进行检测。
With reference to EN 14582: 2016, analysis was performed by IC.

检测部位描述/TEST PART DESCRIPTION: 非金属/Non-metal

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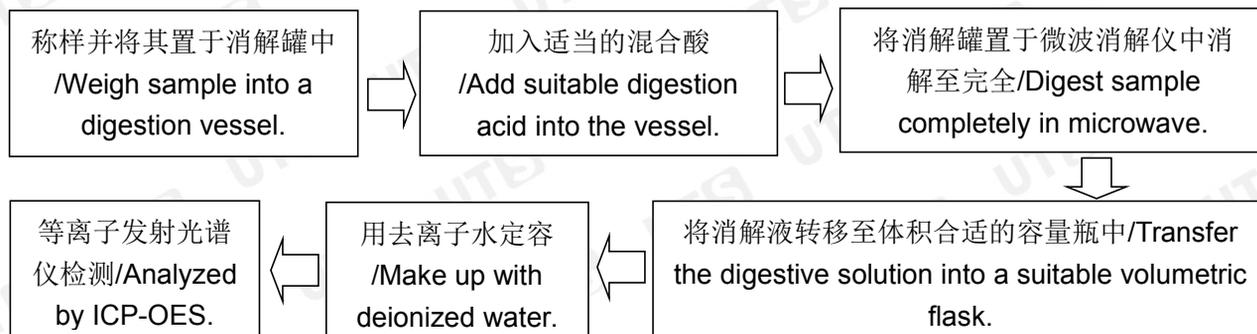
检测报告

TEST REPORT

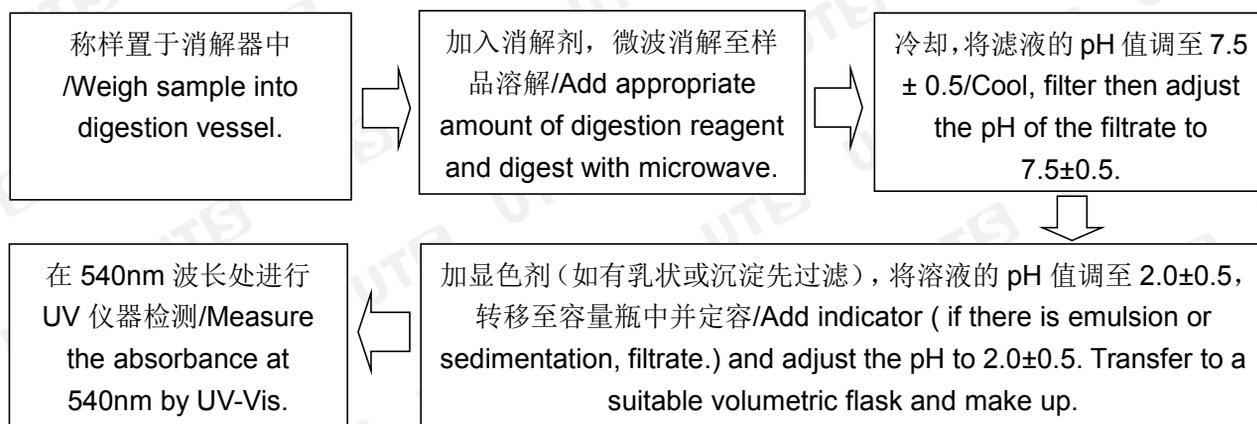
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检测流程图/FLOW CHART

1. Pb、Cd、Hg 检测/Test for Pb, Cd, Hg Content



2. 六价铬 Cr (VI) 检测/Test for Chromium (VI) Content



3. 多溴联苯&多溴二苯醚和邻苯二甲酸酯检测 /Test for PBBs&PBDEs and Phthalates



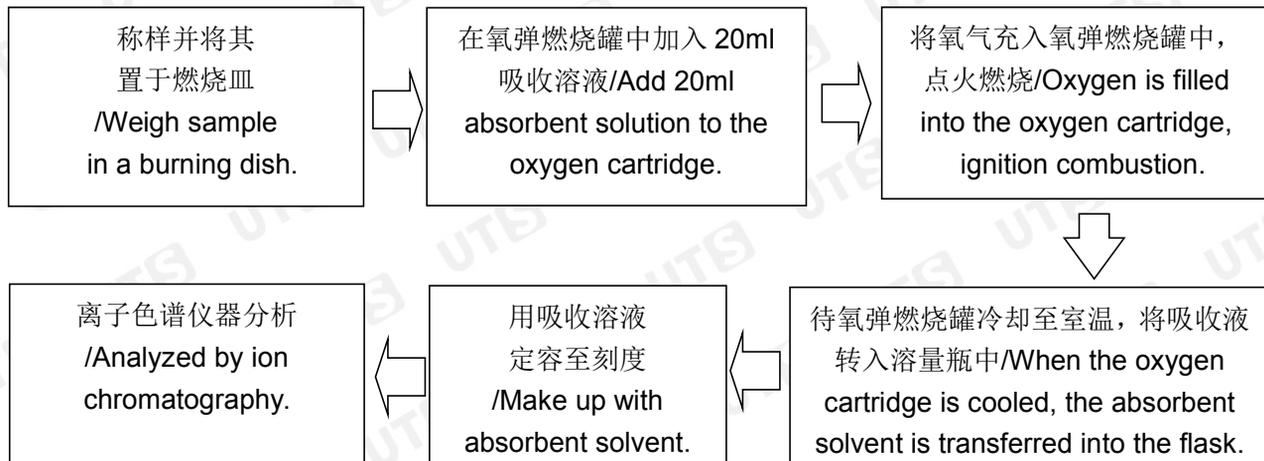
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TEST REPORT

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4. 卤素检测/Test for halogen Content



5. 样品照片/Sample photo(s)



.....报告结束/End of Report.....

本报告中结果仅作为科研、教学或内部质量控制之用。

Test results in this report are only used for scientific research, teaching and internal quality control.