



检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 1 页 共 23 页
Page 1 of 23

报告抬头公司名称 东莞凯美隆塑料有限公司
Company Name DONG GUAN CHERMERLON PLASTICS CO.,LTD
shown on Report
地 址 广东省东莞市沙田镇西太隆明珠路 25 号
Address 25 PEARL ROAD XITAILONG DISTRICT SHATIAN TOWN DONGGUAN
GUANGDONG

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称 塑胶颗粒
Sample Name Plastic particles
样品型号 D2017、D2515、D730、FR865、FR865C、FR865CGL、FR865A、FR865B、3016、
Part No. 3016GL、3016GLNW、3016CGL、3016ZH、3016DL、3016NH、3020、3040、
3040GL、D302U、D303U、D305U、3106、D570、D580、D555、D535、1019、
1035、1065、1001、H6500、H988、1100、5983X、1001G10、1001G20、3001G10、
3001G20、C395、PP9010、PP9011、PP9012、T2215、D2017BK、D2515BK、
D730BK、D4015、3016NWP、D535HF、1085、5983、5983R、5983T、H4000、
3016NW、3016S、5983C、S102G4-NC、J18006B9 MIXTURE
样品接收日期 2024.02.26
Sample Received Date Feb. 26, 2024
样品检测日期 2024.02.26-2024.03.01
Testing Period Feb. 26, 2024 to Mar. 1, 2024

测试内容 Test Conducted:

根据客户的申请要求，具体要求详见下一页。

As requested by the applicant. For details refer to next page(s).

批 准

郑晴涛

日 期

2024.03.01

Approved by

Date

郑晴涛

技术经理 Technical Manager

No. R677501083

华测检测认证集团股份有限公司

广东省深圳市宝安区新安街道兴东社区华测检测大楼

华测检测认证集团股份有限公司

检验检测专用章

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 2 页 共 23 页
Page 2 of 23

测试摘要 Executive Summary:

测试要求

TEST REQUEST

- 欧盟持久性有机污染物(POPs)法规(EU) 2019/1021
Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)
- 多溴二苯醚
Polybrominated Diphenyl Ethers (PBDEs)
 - 全氟辛烷磺酸(PFOS)及其衍生物
Perfluorooctane sulfonic acid (PFOS) and its derivatives
 - 六溴环十二烷
Hexabromocyclododecane (HBCDD)
 - 短链氯化石蜡
Short Chain Chlorinated Paraffins (SCCPs)
 - 滴滴涕(1,1,1-三氯-2,2-二(对-氯苯基)乙烷)
DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl)ethane)
 - 氯丹
Chlordane
 - 六氯环己烷, 包括林丹
Hexachlorocyclohexanes, including Lindane
 - 狄氏剂
Dieldrin
 - 异狄氏剂
Endrin
 - 七氯
Heptachlor
 - 硫丹
Endosulfan
 - 十氯酮
Chlordecone
 - 艾氏剂
Aldrin
 - 灭蚁灵
Mirex
 - 毒杀芬
Toxaphene

测试结果

CONCLUSION

- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)
- 见结果页
See test result(s)

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 3 页 共 23 页
Page 3 of 23

- 五氯苯 Pentachlorobenzene	见结果页 See test result(s)
- 六氯苯 Hexachlorobenzene	见结果页 See test result(s)
- 六溴联苯 Hexabromobiphenyl	见结果页 See test result(s)
- 多氯联苯 Polychlorinated Biphenyls(PCBs)	见结果页 See test result(s)
- 多氯化萘 Polychlorinated Naphthalenes (PCNs)	见结果页 See test result(s)
- 六氯丁二烯 Hexachlorobutadiene (HCBd)	见结果页 See test result(s)
- 五氯苯酚及其盐和酯 Pentachlorophenol and its salts and esters	见结果页 See test result(s)
- 全氟辛酸(PFOA)及其盐和相关物质 Perfluorooctanoic acid (PFOA) and its salts & related substances	见结果页 See test result(s)
- 三氯杀螨醇 Dicofol	见结果页 See test result(s)
- 全氟己基磺酸(PFHxS)及其盐和相关物质 Perfluorohexane-1-sulphonic acid (PFHxS) and its salts & related substances	见结果页 See test result(s)

*****详细结果, 请见下页*****

***** For further details, please refer to the following page(s) *****

检测报告 Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 4 页 共 23 页
Page 4 of 23

欧盟持久性有机污染物(POPs)法规(EU) 2019/1021 Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)

▼ 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)

测试方法: IEC 62321-6:2015; 测试仪器: GC-MS

Test Method: IEC 62321-6:2015; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)
	003	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5
十溴二苯醚 Decabromodiphenyl ether	N.D.	5

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 5 页 共 23 页
Page 5 of 23

▼ 全氟辛烷磺酸(PFOS)及其衍生物 Perfluorooctane sulfonic acid (PFOS) and its derivatives*¹

测试方法: CEN/TS 15968:2010; 测试仪器: LC-MS-MS & GC-MS

Test Method: CEN/TS 15968:2010; Test Equipment: LC-MS-MS & GC-MS

序号 No.	测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
			003		
1	全氟辛基磺酸 Perfluorooctanesulfonic acid (PFOS)	1763-23-1	N.D.	0.010	--
2	全氟辛基磺酸钠 Sodium perfluorooctane sulfonate (PFOS-Na)*	4021-47-0	N.D.	0.010	--
3	全氟辛基磺酸钾 Perfluorooctanesulfonic acid, potassium salt (PFOS-K)*	2795-39-3	N.D.	0.010	--
4	全氟辛基磺酸锂 Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)*	29457-72-5	N.D.	0.010	--
5	全氟辛基磺酸镁 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluoro-, magnesium salt (2:1) (PFOS-Mg)*	91036-71-4	N.D.	0.020	--
6	全氟辛基磺酸铵 Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)*	29081-56-9	N.D.	0.010	--
7	全氟辛基磺酸二乙醇铵 Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)*	70225-14-8	N.D.	0.010	--
8	全氟辛基磺酸四乙基铵 Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)*	56773-42-3	N.D.	0.010	--
9	全氟辛基磺酸二癸二甲基铵 Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-DDA)*	251099-16-8	N.D.	0.010	--
10	全氟辛基磺酰氟 Perfluoro-1-octanesulfonyl fluoride (PFOSF)*	307-35-7	N.D.	0.010	--
11	全氟辛基磺酸哌啶 Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctanesulfonate	71463-74-6	N.D.	0.020	--
12	氟虫胺 N-Ethylperfluoro-1- octanesulfonamide (N-Et-FOSA)	4151-50-2	N.D.	0.050	--

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 6 页 共 23 页
Page 6 of 23

序号 No.	测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
			003		
13	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-十七氟-N-甲基-辛磺酰胺 N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8	N.D.	0.050	--
14	N-乙基全氟辛基磺酰胺乙醇 2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2	N.D.	0.050	--
15	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-十七氟-N-(2-羟乙基)-N-甲基-1-辛基磺酰胺 2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7	N.D.	0.050	--
16	全氟辛基磺酰胺 Perfluorooctane sulfonamide (PFOSA)	754-91-6	N.D.	0.010	--
17	全氟辛基磺酰胺锂盐(1:1) Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)*	76752-79-9	N.D.	0.010	--
18	全氟辛烷磺酰氨基乙酸 Glycine, N-[(heptadecafluorooctyl)sulfonyl]- (FOSAA)	2806-24-8	N.D.	0.050	--
19	N-(十七氟辛基磺酰基)-N-甲基甘氨酸 N-Methyl perfluorooctanesulfonamidoacetic acid (N-Me-FOSAA)	2355-31-9	N.D.	0.050	--
20	N-乙基-N-((十七氟辛基)磺酰基)甘氨酸 N-ethyl-N-[(heptadecafluorooctyl)sulphonyl]glycine (N-Et-FOSAA)	2991-50-6	N.D.	0.050	--
21	总和 Total	--	N.D.	--	10

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- *该物质的结果由其特定化合物的结果换算而来。

Result(s) shown of the substance(s) is/ are converted from the result(s) of certain compound(s).

- 根据欧盟持久性有机污染物(POPs)法规(EU) 2019/1021, 全氟辛烷磺酸(PFOS)及其衍生物被定义为一类化学物质, 但法规中并未给出物质清单。结论是根据所测试的项目含量得出的。

According to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs), Perfluorooctane sulfonic acid (PFOS) and its derivatives are defined as a class of chemicals. There is not an official list in the regulation. The conclusion is based on the tested chemicals.

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 7 页 共 23 页
Page 7 of 23

▼ **六溴环十二烷 Hexabromocyclododecane (HBCDD)** *¹

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
		003		
六溴环十二烷 Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	N.D.	5	100

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- “六溴环十二烷(HBCDD)”指: 六溴环十二烷(HBCDD)、1,2,5,6,9,10-六溴环十二烷及其非对映异构体 (α -HBCDD, β -HBCDD, γ -HBCDD)
- ‘Hexabromocyclododecane (HBCDD)’ means: Hexabromocyclododecane (HBCDD), 1,2,5,6,9,10-hexabromocyclododecane and its main diastereoisomers: α -HBCDD, β -HBCDD, γ -HBCDD

▼ **短链氯化石蜡 Short Chain Chlorinated Paraffins (SCCPs)** *¹

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS(NCI)

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS(NCI)

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	003		
短链氯化石蜡 Short Chain Chlorinated Paraffins (SCCPs)	N.D.	100	10000

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 8 页 共 23 页
Page 8 of 23

▼ **滴滴涕(1,1,1-三氯-2,2-二(对-氯苯基)乙烷) DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl)ethane) *1**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	003		
滴滴涕(1,1,1-三氯-2,2-二(对-氯苯基)乙烷) DDT (1,1,1-trichloro-2,2-bis (4-chlorophenyl)ethane)	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **氯丹 Chlordane*1**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	003		
氯丹 Chlordane	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

检测报告 Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 9 页 共 23 页
Page 9 of 23

▼ **六氯环己烷, 包括林丹 Hexachlorocyclohexanes, including Lindane*¹**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	003	MDL (mg/kg)	(mg/kg)
六氯环己烷, 包括林丹 Hexachlorocyclohexanes, including Lindane	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **狄氏剂 Dieldrin*¹**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	003	MDL (mg/kg)	(mg/kg)
狄氏剂 Dieldrine	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 10 页 共 23 页
Page 10 of 23

▼ 异狄氏剂 **Endrin***¹

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 <u>Tested Item(s)</u>	结果 <u>Result</u> (mg/kg)	方法检出限	限值 <u>Limit</u>
	003	<u>MDL</u> (mg/kg)	(mg/kg)
异狄氏剂 Endrine	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ 七氯 **Heptachlor***¹

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 <u>Tested Item(s)</u>	结果 <u>Result</u> (mg/kg)	方法检出限	限值 <u>Limit</u>
	003	<u>MDL</u> (mg/kg)	(mg/kg)
七氯 Heptachlor	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 11 页 共 23 页
Page 11 of 23

▼ **硫丹 Endosulfan***¹

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	003	MDL (mg/kg)	(mg/kg)
硫丹 Endosulfan	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **十氯酮 Chlordecone***¹

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	003	MDL (mg/kg)	(mg/kg)
十氯酮 Chlordecone	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 12 页 共 23 页
Page 12 of 23

▼ 艾氏剂 Aldrin*¹

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	003	MDL (mg/kg)	(mg/kg)
艾氏剂 Aldrine	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ 灭蚁灵 Mirex

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	003	MDL (mg/kg)	(mg/kg)
灭蚁灵 Mirex	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 13 页 共 23 页
Page 13 of 23

▼ 毒杀芬 Toxaphene*¹

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	003	MDL (mg/kg)	(mg/kg)
毒杀芬 Toxaphene	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ 五氯苯 Pentachlorobenzene*¹

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	003	MDL (mg/kg)	(mg/kg)
五氯苯 Pentachlorobenzene	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 14 页 共 23 页
Page 14 of 23

▼ 六氯苯 Hexachlorobenzene*1

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	003	MDL (mg/kg)	(mg/kg)
六氯苯 Hexachlorobenzene	N.D.	5	10

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ 六溴联苯 Hexabromobiphenyl

测试方法: IEC 62321-6:2015; 测试仪器: GC-MS

Test Method: IEC 62321-6:2015; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	003	MDL (mg/kg)	(mg/kg)
六溴联苯 Hexabromobiphenyl	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 15 页 共 23 页
Page 15 of 23

▼ **多氯联苯 Polychlorinated Biphenyls(PCBs)** *¹

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	003		
多氯联苯 Polychlorinated Biphenyls(PCBs)	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **多氯化萘 Polychlorinated Naphthalenes (PCNs)** *¹

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
	003		
多氯化萘 Polychlorinated Naphthalenes (PCNs)	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 16 页 共 23 页
Page 16 of 23

▼ **六氯丁二烯 Hexachlorobutadiene (HCBd) *1**

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	003	MDL (mg/kg)	(mg/kg)
六氯丁二烯 Hexachlorobutadiene	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **五氯苯酚及其盐和酯 Pentachlorophenol and its salts and esters*1**

测试方法: 参考 ISO 17070:2015; 测试仪器: GC-MS

Test Method: Refer to ISO 17070:2015; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	003	MDL (mg/kg)	(mg/kg)
五氯苯酚及其盐和酯 Pentachlorophenol and its salts and esters	N.D.	1	5

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- 五氯苯酚及其盐和酯的结果以五氯苯酚计。

The test result of Pentachlorophenol and its salts and esters is calculated by Pentachlorophenol.

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 17 页 共 23 页
Page 17 of 23

▼ 全氟辛酸(PFOA)及其盐和相关物质

Perfluorooctanoic acid (PFOA) and its salts & related substances*1

测试方法: CEN/TS 15968:2010; 测试仪器: LC-MS-MS & GC-MS

Test Method: CEN/TS 15968:2010; Test Equipment: LC-MS-MS & GC-MS

序号 No.	测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
			003		
1	全氟辛酸 Perfluorooctanoic acid (PFOA)	335-67-1	N.D.	0.010	--
2	全氟辛酸铵 Ammonium pentadecafluorooctanoate (APFO)*	3825-26-1	N.D.	0.010	--
3	全氟辛酸钠 Sodium perfluorooctanoate (PFOA-Na)*	335-95-5	N.D.	0.010	--
4	全氟辛酸钾 Potassium perfluorooctanoate (PFOA-K)*	2395-00-8	N.D.	0.010	--
5	全氟辛酸银 Silver perfluorooctanoate (PFOA-Ag)*	335-93-3	N.D.	0.010	--
6	全氟辛氟 Perfluorooctanoyl fluoride (PFOA-F)*	335-66-0	N.D.	0.010	--
7	全氟辛酸锂 Lithium perfluorooctanoate (PFOA-Li)*	17125-58-5	N.D.	0.010	--
8	全氟辛酸铯 Cesium perfluorooctanoate (PFOA-Cs)*	17125-60-9	N.D.	0.020	--
9	全氟辛酸钴 Cobalt perfluorooctanoate (PFOA-Co)*	35965-01-6	N.D.	0.025	--
10	全氟辛酸铬 Chromium(III) perfluorooctanoate (PFOA-Cr)*	68141-02-6	N.D.	0.025	--
11	全氟辛酸(PFOA)及其盐 Perfluorooctanoic acid (PFOA) and its salts	-	N.D.	--	0.025
12	全氟辛酸甲酯 Methyl perfluorooctanoate (Me-PFOA)	376-27-2	N.D.	0.200	1
13	全氟辛酸乙酯 Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	N.D.	0.200	1
14	全氟正辛基碘烷 Perfluorooctyl iodide (PFOI)	507-63-1	N.D.	0.200	1
15	1H,1H,2H,2H-全氟-1-癸醇 1H,1H,2H,2H-perfluoro-1-decanol (8:2 FTOH)	678-39-7	N.D.	0.200	1
16	1H,1H,2H,2H-全氟癸磺酸 1H,1H,2H,2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	N.D.	0.200	1
17	1H,1H,2H,2H-全氟癸磺酸钠 1H,1H,2H,2H- Perfluorodecanesulfonic Acid Sodium (8:2 FTS-Na)*	27619-96-1	N.D.	0.200	1

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 18 页 共 23 页
Page 18 of 23

序号 No.	测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
			003		
18	1H,1H,2H,2H-全氟癸磺酸铵 8:2 Fluorotelomer sulfonate ammonium salt (8:2 FTS-NH ₄)*	149724-40-3	N.D.	0.200	1
19	丙烯酸 1H,1H,2H,2H-十七氟癸酯 1,1,2,2-Tetrahydroperfluorodecyl acrylate (8:2 FTAC)	27905-45-9	N.D.	0.200	1
20	2-(全氟辛基)乙基甲基丙烯酸酯 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl ester (8:2 FTMA)	1996-88-9	N.D.	0.200	1
21	1H,1H,2H,2H-全氟癸基三乙氧基 硅烷 1H,1H,2H,2H- Perfluorodecyltriethoxysilane (PFSI)	101947-16-4	N.D.	0.200	1
22	1-碘-1H,1H,2H,2H-全氟癸烷 Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8- heptadecafluoro-10-iodo- (8:2 FTI)	2043-53-0	N.D.	0.200	1
23	双(2-(全氟乙基))磷酸 8:2 Fluorotelomer phosphate diester (8:2diPAP)	678-41-1	N.D.	0.200	1
24	双(2-(全氟乙基))磷酸钠 Sodium bis(1H,1H,2H,2H- perfluorodecyl)phosphate (8:2diPAP-Na)*	114519-85-6	N.D.	0.200	1
25	双(2-(全氟乙基))磷酸铵 Ammonium bis(1H,1H,2H,2H- perfluorodecyl)phosphate (8:2diPAP-NH ₄)*	93776-20-6	N.D.	0.200	1
26	四丁基磷 2H,2H-全氟癸酸酯 Tetrabutylphosphonium 2H,2H-Perfluorodecanoate (H ₂ PFDA-P(C ₄ H ₉) ₄)	882489-14-7	N.D.	0.010	1
27	2H,2H,3H,3H-全氟十一酸 2H,2H,3H,3H-Perfluoroundecanoic acid (H ₄ PFUnA)	34598-33-9	N.D.	0.010	1
28	3-(全氟辛基)丙酸钾 Potassium 3-(perfluorooctyl)propanoate (H ₄ PFUnA-K)*	83310-58-1	N.D.	0.020	1
29	2H,2H-全氟癸酸 2H,2H-Perfluorodecanoate (H ₂ PFDA)	27854-31-5	N.D.	0.010	1
30	全氟辛基乙烯 1-Decene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluoro- (PFOE)	21652-58-4	N.D.	0.200	1

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 19 页 共 23 页
Page 19 of 23

序号 No.	测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
			003		
31	全氟癸基三氯硅烷 Perfluorooctylethyltrichlorosilane (FDTs)	78560-44-8	N.D.	0.200	1
32	全氟癸基三甲氧硅烷 Perfluorooctylethyltrimethoxysilane (FDTMOS)	83048-65-1	N.D.	0.200	1
33	双[2-(全氟癸基)乙基]磷酸酯 Bis[2-(perfluorodecyl)ethyl] Phosphate (10:2 diPAP)	1895-26-7	N.D.	0.200	1
34	十七氟-1-癸醇磷酸二氢酯 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10- heptadecafluorodecyl dihydrogen phosphate (8:2 monoPAPS)	57678-03-2	N.D.	0.200	1
35	2H-全氟-2-癸烯酸 2H-Perfluoro-2-decenoic acid (8:2 FTUCA)	70887-84-2	N.D.	0.010	1
36	C8-14-全氟烷基乙醇 Alcohols, C8-14, gamma-omega- perfluoro (C8-14-PFEtOH)	68391-08-2	N.D.	0.200	1
37	全氟辛酸(PFOA)相关物质 Perfluorooctanoic acid (PFOA) related substances	-	N.D.	--	1

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- *该物质的结果由其特定化合物的结果换算而来。

Result(s) shown of the substance(s) is/ are converted from the result(s) of certain compound(s).

- 根据欧盟持久性有机污染物(POPs)法规(EU) 2019/1021, 全氟辛酸(PFOA)及其盐和相关物质被定义为一类化学物质, 但法规中并未给出物质清单。结论是根据所测试的项目含量得出的。

According to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs), Perfluorooctanoic acid (PFOA) and its salts & related substances are defined as a class of chemicals. There is not an official list in the regulation. The conclusion is based on the tested chemicals.

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 20 页 共 23 页
Page 20 of 23

▼ **三氯杀螨醇 Dicofol***¹

测试方法: 参考 US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果 Result (mg/kg)	方法检出限	限值 Limit
	003	MDL (mg/kg)	(mg/kg)
三氯杀螨醇 Dicofol	N.D.	0.05	N.D.

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million

▼ **全氟己基磺酸(PFHxS)及其盐和相关物质**

Perfluorohexane-1-sulphonic acid (PFHxS) and its salts & related substances*¹

测试方法: CEN/TS 15968:2010; 测试仪器: LC-MS-MS & GC-MS

Test Method: CEN/TS 15968:2010; Test Equipment: LC-MS-MS & GC-MS

序号 No.	测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限	限值 Limit
			003	MDL (mg/kg)	(mg/kg)
1	全氟己基磺酸 Perfluorohexanesulfonic acid (PFHxS)	355-46-4	N.D.	0.010	--
2	全氟己基磺酸钠 1-Hexanesulfonic acid,1,1,2,2,3,3,4,4, 5,5,6,6,6- tridecafluoro-, sodium salt (PFHxS-Na)*	82382-12-5	N.D.	0.010	--
3	全氟己基磺酸钾 Potassium perfluorohexane-1- sulphonate (PFHxS-K)*	3871-99-6	N.D.	0.010	--
4	全氟己基磺酸锂 1-Hexanesulfonic acid,1,1,2,2,3,3,4,4, 5,5,6,6,6-tridecafluoro-, lithium salt(1:1) (PFHxS-Li)*	55120-77-9	N.D.	0.010	--
5	全氟己基磺酸锌 1-Hexanesulfonic acid,1,1,2,2,3,3,4,4, 5,5,6,6,6-tridecafluoro-, zinc salt (PFHxS-Zn)*	70136-72-0	N.D.	0.010	--
6	全氟己基磺酸镓盐(9CI) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4, 5,5,6,6,6-tridecafluoro-, gallium salt (9CI) (PFHxS-Ga)*	341035-71-0	N.D.	0.010	--

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 21 页 共 23 页
Page 21 of 23

序号 No.	测试项目 Tested Item(s)	CAS No.	结果 Result (mg/kg)	方法检出限 MDL (mg/kg)	限值 Limit (mg/kg)
			003		
7	全氟己基磺酸钪盐(3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4, 5,5,6,6,6-tridecafluoro-, scandium(3+) salt (3:1) (PFHxS-Sc)*	350836-93-0	N.D.	0.010	--
8	全氟己基磺酸钕盐(3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4, 5,5,6,6,6-tridecafluoro-, neodymium(3+) salt (3:1) (PFHxS-Nd)*	41184-65-0	N.D.	0.010	--
9	全氟己基磺酸钇盐(3:1) 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4, 5,5,6,6,6-tridecafluoro-, yttrium(3+) salt (3:1) (PFHxS-Y)*	41242-12-0	N.D.	0.010	--
10	全氟己基磺酸铯 Cesium Perfluorohexanesulfonate (PFHxS-Cs)*	92011-17-1	N.D.	0.010	--
11	全氟己基磺酸铵 1-Hexanesulfonic acid, 1,1,2,2,3,3,4,4, 5,5,6,6,6-tridecafluoro-, ammonium salt (1:1) (PFHxS-NH ₄)*	68259-08-5	N.D.	0.010	--
12	全氟己基磺酸(PFHxS)及其盐 Perfluorohexane-1-sulphonic acid (PFHxS) and its salts	--	N.D.	--	0.025
13	全氟己基磺酰氟 1-Hexanesulfonyl fluoride, 1,1,2,2,3,3, 4,4,5,5,6,6,6-tridecafluoro- (PFHxSF)*	423-50-7	N.D.	0.010	--
14	全氟己基磺酰胺 1-Hexane-sulfonamide, 1,1,2,2,3,3,4,4, 5,5,6,6,6- tridecafluoro- (FHxSA)	41997-13-1	N.D.	0.010	--
15	N-甲基全氟己烷磺酰胺 N-methylperfluorohexanesulfonamide (MeFHxSA)	68259-15-4	N.D.	0.200	--
16	全氟己基磺酸(PFHxS)相关物质 Perfluorohexane-1-sulphonic acid (PFHxS) related substances	--	N.D.	--	1

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- *该物质的结果由其特定化合物的结果换算而来。

Result(s) shown of the substance(s) is/ are converted from the result(s) of certain compound(s).

检测报告

Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 22 页 共 23 页
Page 22 of 23

样品/部位描述 Sample/Part Description

序号	CTI 样品 ID	描述
No.	CTI Sample ID	Description
1	003	混测, 黑色, 白色, 透明和半透明塑料颗粒 Mixed test, black, white, transparent and translucent plastic grains

注释 Note:

- 根据客户要求, 对样品进行混合测试, 测试结果不代表混合测试样品中任何一种单一材质的含量。
As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.
- “*1”表示该项目/方法不在 CNAS 认可范围内
indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.
- 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。
The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

检测报告 Test Report

报告编号 A2240086220101003E
Report No. A2240086220101003E

第 23 页 共 23 页
Page 23 of 23

样品图片

Photo(s) of the sample(s)



声明 Statement:

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明, 报告参照 ILAC-G8:09/2019 / CNAS-GL015:2022 使用简单接受 (w=0) 二元判定规则进行符合性判定; Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 / CNAS-GL015:2022;
5. 未经 CTI 书面同意, 不得部分复制本报告;
Without written approval of CTI, this report can't be reproduced except in full;
6. 如检测报告中的英文内容与中文内容有差异, 以中文为准。
In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** 报告结束 ***
*** End of Report ***