



TEST REPORT

Report No.: 2501A89116A

Date: December 23, 2025

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Shenzhen Tuozhu Technology Co., Ltd.

深圳拓竹科技有限公司

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深圳市前海深港合作区南山街道临海大道2228号恒昌科技大厦西区903

Report on the submitted samples said to be:

委托检测的样品及申请者对样品的说明如下：

Sample Description: PLA Basic
样品描述：3D打印线材

Style/Item No.: A00-W0
型号：

Sample Receiving Date: December 10, 2025
收样日期：2025 年 12 月 10 日

Testing Period: December 10, 2025 - December 23, 2025
测试周期：2025 年 12 月 10 日 - 2025 年 12 月 23 日

Result: Please refer to next page(s).
测试结果：请参见后续页。

Signed for and on behalf of BACL (BACL 授权签名)

Checked by:
审核:

Queenie Lee 李慧君

Queenie Lee 李慧君

Approved by:
核准:

Len xie 谢创

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Summary of Test Result:

测试结果概要:

TEST REQUEST

测试要求

CONCLUSION

结论

A. Part A of Annex I to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)

持久性有机污染物法规 (EU) 2019/1021附件I A部分

A.1 Tetrabromodiphenyl ether(TetraBDE) , Pentabromodiphenyl ether(PentaBDE) , Hexabromodiphenyl ether(HexaBDE) , Heptabromodiphenyl ether(HeptaBDE) and Decabromodiphenyl ether(DecaBDE) content

Pass
合格

四溴二苯醚 (TetraBDE) 、五溴二苯醚 (PentaBDE) 、六溴二苯醚 (HexaBDE) 、七溴二苯醚 (HeptaBDE) 和十溴二苯醚 (DecaBDE) 的含量

A.2 Hexabromobiphenyl Content

Pass
合格

六溴联苯含量

A.3 Short Chain Chlorinated Paraffin (C10 - C13) content

Pass
合格

短链氯化石蜡 (C10 - C13) 含量

A.4 Hexabromocyclododecane (HBCDD) content

Pass
合格

六溴环十二烷 (HBCDD) 含量

A.5 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) Content

Pass
合格

2- (2h -苯并三唑-2-基) -4,6-二萘基苯酚 (UV-328) 含量

A.6 Dechlorane Plus and its two constituent isomers, syn-Dechlorane Plus and anti-Dechlorane Plus content

Pass
合格

得克隆及其两个组成异构体, 顺式德克隆和反式德克隆含量

A.7 Pentachlorophenol and its salts and esters content

Pass
合格

五氯苯酚及其盐类和酯类含量

A.8 Polychlorinated biphenyls content

Pass
合格

多氯联苯含量

A.9 Pentachlorobenzene content

Pass
合格

五氯苯含量

A.10 Polychlorinated naphthalenes content

Pass
合格

多氯化萘含量

A.11 Hexachlorobutadiene content

Pass
合格

六氯丁二烯的含量

A.12 Perfluorooctane sulfonic acid (PFOS), its salts and PFOS-related compounds content

Pass
合格

全氟辛烷磺酸 (PFOS) 、其盐类及与PFOS相关的化合物含量

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A.13 Perfluorooctanoic acid (PFOA) and its salts content 全氟辛酸 (PFOA) 及其盐含量	Pass 合格
A.14 Perfluorooctanoic acid (PFOA)-related substances content 全氟辛酸 (PFOA) 相关物质含量	Pass 合格
A.15 Perfluorohexane sulfonic acid (PFHxS) and its salts content 全氟己烷磺酸 (PFHxS) 及其盐含量	Pass 合格
A.16 Perfluorohexane sulfonic acid (PFHxS)-related compounds content 全氟己烷磺酸 (PFHxS) 相关化合物含量	Pass 合格

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Result:

测试结果:

Tested part(s):

测试部位:

(1) White plastic (wire)

白色塑胶 线材

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A. Part A of Annex I to Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)

持久性有机污染物法规 (EU) 2019/1021附件I A部分

**A.1 Tetrabromodiphenyl ether(TetraBDE) , Pentabromodiphenyl ether(PentaBDE) , Hexabromodiphenyl ether (HexaBDE) , Heptabromodiphenyl ether(HeptaBDE) and Decabromodiphenyl ether(DecaBDE) content
四溴二苯醚 (TetraBDE) 、五溴二苯醚 (PentaBDE) 、六溴二苯醚 (HexaBDE) 、七溴二苯醚 (HeptaBDE) 和十溴二苯醚 (DecaBDE) 的含量**

Test Method/测试方法: ISO 17881-1: 2016

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
Tetrabromodiphenyl ether (TetraBDE) 四溴二苯醚	mg/kg	5	N.D.	10
Pentabromodiphenyl ether (PentaBDE) 五溴二苯醚	mg/kg	5	N.D.	10
Hexabromodiphenyl ether (HexaBDE) 六溴二苯醚	mg/kg	5	N.D.	10
Heptabromodiphenyl ether (HeptaBDE) 七溴二苯醚	mg/kg	5	N.D.	10
Decabromodiphenyl ether (DecaBDE) 十溴二苯醚	mg/kg	5	N.D.	10
sum of all	mg/kg	-	N.D.	10
Conclusion 结论	/	/	Pass 合格	/

A.2 Hexabromobiphenyl Content

六溴联苯含量

Test Method/测试方法: ISO 17881-1: 2016

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
Hexabromobiphenyl 六溴联苯	mg/kg	5	N.D.	5
Conclusion 结论	/	/	Pass 合格	/

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A.3 Short Chain Chlorinated Paraffin (C10 - C13) content

短链氯化石蜡 (C10 - C13) 含量

Test Method/测试方法: ISO 18219-1:2021

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
Short-chained chlorinated paraffins(SCCP) 短链氯化石蜡	mg/kg	100	N.D.	1500
Conclusion 结论	/	/	Pass 合格	/

A.4 Hexabromocyclododecane (HBCDD) content

六溴环十二烷 (HBCDD) 含量

Test Method/测试方法: ISO 17881-1: 2016

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
Hexabromocyclododecane (HBCDD) 六溴环十二烷	mg/kg	5	N.D.	75
Conclusion 结论	/	/	Pass 合格	/

A.5 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) Content

2-(2h-苯并三唑-2-基)-4,6-二萼基苯酚 (UV-328) 含量

Test Method: ISO 24040:2022, extraction in THF, analysis was performed by GC-MS.

测试方法: ISO 24040:2022, 用THF萃取, 采用气相色谱质谱联用仪 (GC-MS) 分析。

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol(UV-328) 2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚	mg/kg	10	N.D.	100
Conclusion 结论	/	/	Pass 合格	/

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A.6 Dechlorane Plus and its two constituent isomers, syn-Dechlorane Plus and anti-Dechlorane Plus content

得克隆及其两个组成异构体，顺式德克隆和反式德克隆含量

Test Method/测试方法: Solvent extraction and analysis was performed by Gas Chromatographic-Mass Spectrometer (GC-MS)

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
Dechlorane Plus® and its two constituent isomers, syn-Dechlorane Plus and anti-Dechlorane Plus(DP, syn-DP and anti-DP) 得克隆及其两个组成异构体，顺式德克隆和反式德克隆	mg/kg	10	N.D.	1000
Conclusion 结论	/	/	Pass 合格	/

A.7 Pentachlorophenol and its salts and esters content

五氯苯酚及其盐类和酯类含量

Test Method/测试方法: EN 17134-2:2023

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
Pentachlorophenol and its salts and esters 五氯苯酚及其盐和酯	mg/kg	0.1	N.D.	5
Conclusion 结论	/	/	Pass 合格	/

A.8 Polychlorinated biphenyls content

多氯联苯含量

Test Method/测试方法: Solvent extraction and analysis was performed by Gas Chromatographic-Mass Spectrometer (GC-MS)

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
Polychlorinated biphenyls (PCB' s) 多氯联苯	mg/kg	5	N.D.	5
Conclusion 结论	/	/	Pass 合格	/

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A.9 Pentachlorobenzene content

五氯苯含量

Test Method/测试方法: EN 17137:2024

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
Pentachlorobenzene(PCB) 五氯苯	mg/kg	0.5	N.D.	0.5
Conclusion 结论	/	/	Pass 合格	/

A.10 Polychlorinated naphthalenes content

多氯化萘含量

Test Method/测试方法: Solvent extraction and analysis was performed by Gas Chromatographic-Mass Spectrometer (GC-MS)

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
Polychlorinated naphthalenes (PCNs) 多氯化萘	mg/kg	5	N.D.	5
Conclusion 结论	/	/	Pass 合格	/

A.11 Hexachlorobutadiene content

六氯丁二烯的含量

Test Method/测试方法: Solvent extraction and analysis was performed by Gas Chromatographic-Mass Spectrometer (GC-MS)

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
Hexachlorobutadiene(HCBD) 六氯丁二烯	mg/kg	10	N.D.	10
Conclusion 结论	/	/	Pass 合格	/

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A.12 Perfluorooctane sulfonic acid (PFOS), its salts and PFOS-related compounds content

全氟辛烷磺酸 (PFOS)、其盐类及与PFOS相关的化合物含量

Test Method/测试方法: ISO 23702-1:2023

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
Perfluorooctane sulfonic acid (PFOS) 全氟辛烷磺酸	mg/kg	0.025	N.D.	See Remark 见备注
Perfluorooctanesulfonic acid, potassium salt (PFOS-K) 全氟辛酸, 钾盐	mg/kg	0.025	N.D.	See Remark 见备注
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li) 全氟辛酸, 锂盐	mg/kg	0.025	N.D.	See Remark 见备注
Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄) 全氟辛基磺酸铵	mg/kg	0.025	N.D.	See Remark 见备注
Perfluorooctane sulfonate diethanolamine salt (PFOSNH (OH) ₂) 全氟辛烷磺酸二乙醇胺盐	mg/kg	0.025	N.D.	See Remark 见备注
Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄) 全氟辛酸, 四乙铵盐	mg/kg	0.025	N.D.	See Remark 见备注
Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂) 二癸基二甲基全氟辛烷磺酸铵	mg/kg	0.025	N.D.	See Remark 见备注
N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA) N-乙基全氟-1-辛烷磺酰胺	mg/kg	0.25	N.D.	See Remark 见备注
N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA) N-甲基全氟-1-辛烷磺酰胺	mg/kg	0.25	N.D.	See Remark 见备注

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Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE) 2-(N-乙基全氟-1-辛烷磺酰胺基)-乙醇	mg/kg	0.25	N.D.	See Remark 见备注
2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE) 2-(N-甲基全氟-1-辛烷磺酰胺基)-乙醇	mg/kg	0.25	N.D.	See Remark 见备注
Perfluoro-1-octanesulfonyl fluoride(POSF) 全氟辛基磺酰氟	mg/kg	0.25	N.D.	See Remark 见备注
perfluorooctane sulfonamide (PFOSA) 全氟辛烷磺酰胺	mg/kg	0.25	N.D.	See Remark 见备注
Conclusion 结论	/	/	Pass 合格	/

Limit Remark/限量备注:

Substance, mixture: 10 mg/kg
Semi-finished products or articles or parts there of: 1000 mg/kg ,
Textiles or other coated materials: 1 µg/m²
物质、混合物 : 10 毫克/千克
半成品、成品或其部件 : 1000 毫克/千克
纺织品或其他涂层材料 : 1 微克/平方米

A.13 Perfluorooctanoic acid (PFOA) and its salts content

全氟辛酸 (PFOA) 及其盐含量

Test Method/测试方法: ISO 23702-1:2023

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
Pentadecafluorooctanoic acid (PFOA) 全氟辛酸	ppb	25	N.D.	25
Sodium perfluorooctanoate (PFOA-Na) 全氟辛酸钠	ppb	25	N.D.	25

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Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
Potassium perfluorooctanoate (PFOA-K) 全氟辛酸钾	ppb	25	N.D.	25
Silver perfluorooctanoate (PFOA-Ag) 全氟辛酸银	ppb	25	N.D.	25
Perfluorooctanoyl fluoride (PFOA-F) 全氟辛酰氟	ppb	25	N.D.	25
Ammonium pentadecafluorooctanoate (APFO) 十五代氟辛酸铵盐	ppb	25	N.D.	25
Conclusion 结论	/	/	Pass 合格	/

A.14 Perfluorooctanoic acid (PFOA)-related substances content

全氟辛酸 (PFOA) 相关物质含量

Test Method/测试方法: ISO 23702-1:2023

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
1H,1H,2H,2H- Perfluorodecanesulfonic acid (8:2FTS) 1H,1H,2H,2H-全氟癸磺酸	ppb	250	N.D.	-
Methyl perfluorooctanoate (Me-PFOA) 十五氟辛酸甲酯	ppb	250	N.D.	-
Ethyl perfluorooctanoate(Et- PFOA) 全氟辛酸乙酯	ppb	250	N.D.	-
1H,1H,2H,2H-Perfluoro-1- Decanol(8:2 FTOH) 2-全氟辛基乙醇	ppb	250	N.D.	-
1H,1H,2H,2H- Perfluorodecylacrylate(8:2 FTA) 1H,1H,2H,2H-全氟癸基丙烯酸酯	ppb	250	N.D.	-

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Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
1H,1H,2H,2H-Perfluorodecyl methacrylate(8:2 FTMA) 1H,1H,2H,2H-全氟正癸基甲基丙烯酸酯	ppb	250	N.D.	-
2H,2H-Perfluorodecanoic acid (H2PFDA) 2H,2H-全氟癸酸	ppb	250	N.D.	-
sum of all	ppb	-	N.D.	1000
Conclusion 结论	/	/	Pass 合格	/

A.15 Perfluorohexane sulfonic acid (PFHxS) and its salts content

全氟己烷磺酸 (PFHxS) 及其盐含量

Test Method/测试方法: ISO 23702-1:2023

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
Perfluorohexane sulfonic acid (PFHxS) 全氟己烷磺酸	ppb	25	N.D.	25
Perfluorohexane sulfonic acid potassium salt(PFHxS-K) 全氟己烷磺酸钾盐	ppb	25	N.D.	25
Perfluorohexane Sulfonic acid, lithium salt(PFHxS-Li) 全氟己烷磺酸, 锂盐	ppb	25	N.D.	25
Perfluorohexane Sulfonic acid, ammonium salt(PFHxS-NH4) 全氟己烷磺酸, 铵盐	ppb	25	N.D.	25
Perfluorohexane sulfonic acid sodium salt(PFHxS-Na) 全氟己烷磺酸钠	ppb	25	N.D.	25
Conclusion 结论	/	/	Pass 合格	/

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A.16 Perfluorohexane sulfonic acid (PFHxS)-related compounds content

全氟己烷磺酸 (PFHxS) 相关化合物含量

Test Method/测试方法: ISO 23702-1:2023

Item 项目	Unit 单位	MDL	Result 测试结果	Limit 限量
			(1)	
N-Methylperfluoro-1-hexanesulfonamide(N-Me-PFHxSA) N-甲基全氟-1-己烷磺酰胺	ppb	250	N.D.	-
Perfluorohexane sulfonamide (PFHxSA) 全氟己烷磺酰胺	ppb	250	N.D.	-
sum of all	ppb	-	N.D.	1000
Conclusion 结论	/	/	Pass 合格	/

Note:

- N.D.= Not Detected or less than MDL
- MDL = Method Detection Limit
- The Result less than MDL are not taken into account while calculating the sum contents.

注释：

- N.D.= 未检出或小于方法检出限
- MDL = 方法检出限
- 加和含量计算时未计入小于方法检出限的结果。

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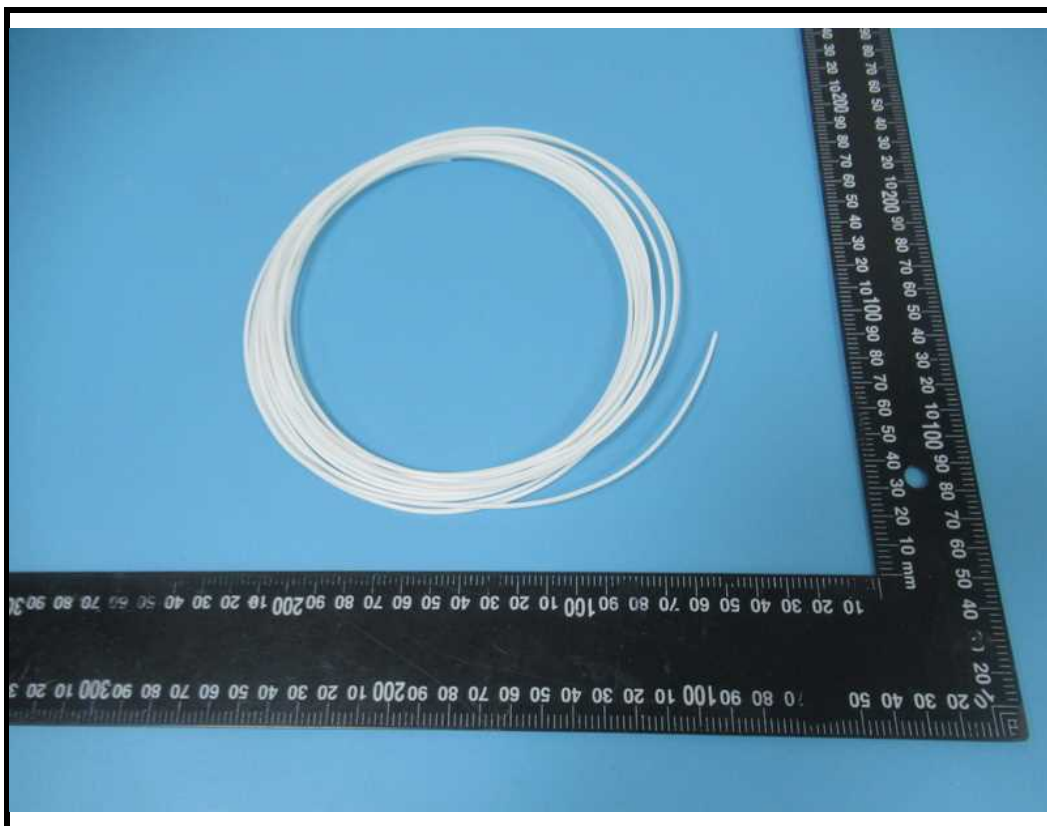
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Photograph of Sample

样品照片



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