



中国认可
国际互认
检测
TESTING
CNAS L5772



Test Report

Report No.: PTC22061302103C-EN01

Issue Date: Jun.23, 2022

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Applicant:

Address: No.38 Yongtian Road, Trade Logistics Centre Phase Two, Qianshan, Xiangzhou District, Zhuhai, Guangdong, China.

The following merchandise was (were) submitted and identified by client as:

Sample Name: 3D printing pen
Style No.: SL-200, SL-300, SL-800
Colour: Cyan, Black and White, Black and Gray, White
Age Group for Testing: 14+
Applicant's Specified Age Group for Testing: 14+
Manufacturer: Zhuhai Sunlu Industrial Co., Ltd
Address: No.38 Yongtian Road, Trade Logistics Centre Phase Two, Qianshan, Xiangzhou District, Zhuhai, Guangdong, China.
Sample Received Date: Jun.16, 2022
Completed Date: Jun.23, 2022

Test Requested and Conclusion(s): Please refer to next page(s).



Prepare by: Anne

Checked by: Allie

Approved by: Miya(Chemical) Celia(Physical)

Anne

Allie

Miya

Celia

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Test Requested and Conclusion(s):

| No. | Test Sample | Standard and Requirement | Conclusion(s) |
|-----|---------------------------------------|--|---------------|
| 1) | Tested materials of submitted samples | U.S. Federal Hazardous Substances Act (FHSA) CPSC 16 CFR 1500.3(c)(6)(vi) - Flammability of Solids | PASS |
| 2) | Tested materials of submitted samples | Consumer Product Safety Improvement Act of 2008(CPSIA),section 101 (a)(2) - Total Lead (Pb) in accessible substrate materials | PASS |
| 3) | Tested materials of submitted samples | Client's Requirement according to the Consent Decrees of California Proposition 65 - Total Lead (Pb), Phthalates | PASS |
| 4) | Tested materials of submitted samples | CPSC 16 CFR 1303: Ban of Lead-containing paint and certain consumer products bearing lead-containing paint - Total Lead (Pb) | N.A. |
| 5) | Tested materials of submitted samples | The Illinois Lead Poisoning Prevention Act (LPPA) - Total Lead (Pb) | N.A. |
| 6) | Tested materials of submitted samples | CPSC 16 CFR 1500.48,CPSC 16 CFR 1500.49,CPSC 16 CFR 1501 - Sharp Points,Sharp Edges,Small Parts | N.A. |

N.A. = Not Applicable.

Test Result(s): Please refer to next page(s).

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Test Result(s):

1) U.S. Federal Hazardous Substances Act (FHSA) CPSC 16 CFR 1500.3(c)(6)(vi)

Flammability of Solids

Method: CPSC 16 CFR 1500.44

| Sample | Ignition Points | Burn Length (in.) | Burn Time (sec.) | Burn Rate(in./sec.) | Limit (in./sec.) |
|-----------------|-----------------|----------------------|---------------------|------------------------|---------------------|
| 3D printing pen | Edge | 0.6 | 60 | 0.01 | 0.1 |

2) Consumer Product Safety Improvement Act of 2008(CPSIA),section 101 (a)(2)

The Lead content of accessible substrate materials

Method:

Nonmetal - CPSC-CH-E1002-08.3 Analyzed by Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

| Material No. | RL(mg/kg) | Limit (mg/kg) | Result (mg/kg) | Conclusion |
|--------------|-----------|---------------|----------------|------------|
| 1+2+3 | 10 | 100 | N.D. | PASS |
| 4+5+6 | 10 | 100 | N.D. | PASS |
| 7+8+9 | 10 | 100 | N.D. | PASS |
| 10+11+12 | 10 | 100 | N.D. | PASS |

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.

3) Client's Requirement according to the Consent Decrees of California Proposition 65

3.1) Total Lead (Pb)

Method:

Nonmetal - CPSC-CH-E1002-08.3 analyzed by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)..

| Material No. | RL(mg/kg) | Limit (mg/kg) | Result (mg/kg) | Conclusion |
|--------------|-----------|---------------|----------------|------------|
| 1+2+3 | 10 | 100 | N.D. | PASS |
| 4+5+6 | 10 | 100 | N.D. | PASS |
| 7+8+9 | 10 | 100 | N.D. | PASS |
| 10+11+12 | 10 | 100 | N.D. | PASS |

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- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.

Test Result(s):

3.2) Phthalates

Method: CPSC-CH-C1001-09.4, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

| Method: GC-MS (GC-1701-001), analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS). | | | | | | | |
|---|----------------|---------|----------|--------------------------|---------|--------------------------|------------|
| Substances | DBP | BBP | DEHP | DINP | DNHP | DIDP | Conclusion |
| CAS No. | 84-74-2 | 85-68-7 | 117-81-7 | 28553-12-0 68515-48-0 | 84-75-3 | 26761-40-0 68515-49-1 | |
| Limit (mg/kg) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | |
| RL (mg/kg) | 50 | 50 | 50 | 100 | 50 | 100 | |
| Material No. | Result (mg/kg) | | | | | | |
| 1+2+3 | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | PASS |
| 4+5+6 | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | PASS |
| 7+8+9 | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | PASS |
| 10+11+12 | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | PASS |

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.

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Test Material List:

The following materials apply only to the samples submitted for testing

| Material No. | Description | Location |
|--------------|----------------------|----------------------------------|
| 1 | Bright white plastic | Body shell, SL-200 |
| 2 | Cyan plastic | Body shell, SL-200 |
| 3 | White plastic | Body shell, SL-200 |
| 4 | White plastic | Slide cover/button shell, SL-200 |
| 5 | transparent plastic | Display screen, SL-200 |
| 6 | Black plastic | Nib shell, SL-200 |
| 7 | Beige plastic | Pen point, SL-200 |
| 8 | Black plastic | Body shell, SL-300 |
| 9 | Black plastic | Key shell, SL-300 |
| 10 | Grey plastic | Body shell, SL-300 |
| 11 | Off-white plastic | Body shell, SL-800 |
| 12 | White plastic | Key shell, SL-800 |

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Photo(s) of test sample:



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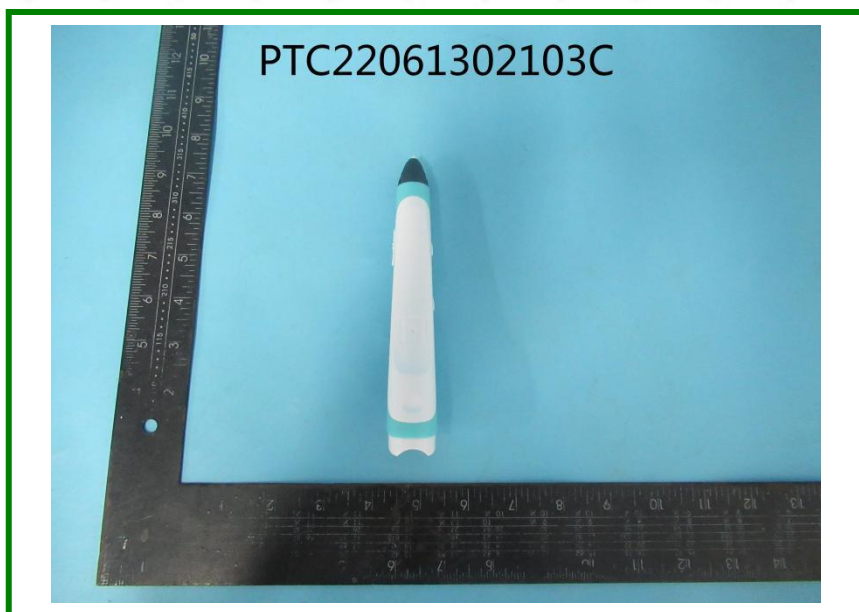


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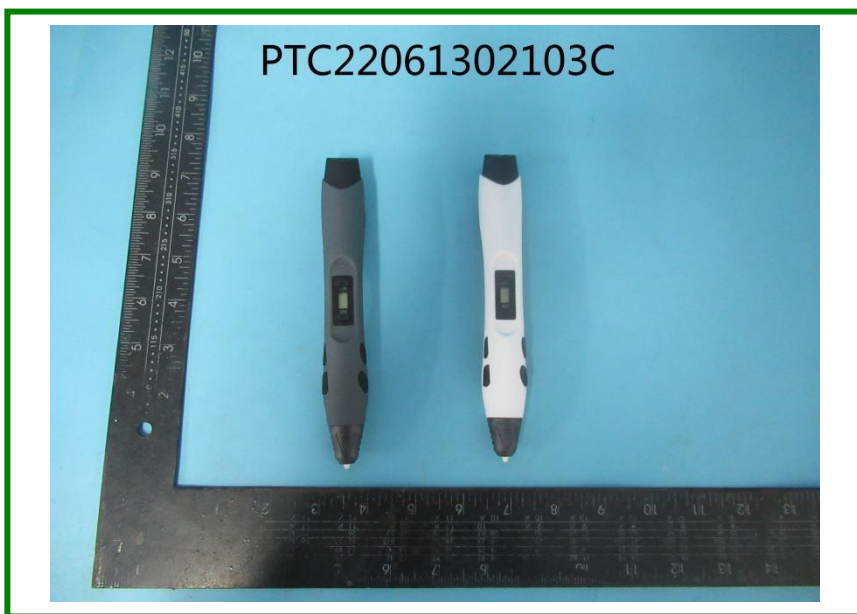


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Photo(s) of other sample:



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End of Report

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