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Technical Report No. 61.406.23.0063.01
Dated 2023-09-01

Applicant: ApplyLabWork Inc.
Address:
Attn.:
Sample Description: Laser Prototype Engineering Expert PT-EX001 General Ink
Sample Receive Date: 2023-08-18
Test Period: From 2023-08-21 to 2023-09-01
Test Requested: Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU and amending Directive (EU)2015/863.
Test Location: 18/F, Yuen Long Trading Centre, 33 Wang Yip Street West, Yuen Long, Hong Kong (TR_61.406.23.0063.01)
Test Result(s): Refer to following page(s)
Remarks:

1. Samples are tested as received.
2. The test results in this report relate only to the samples tested.
3. The General Terms & Conditions and the Testing & Certification Regulations of TÜV SÜD apply as agreed by the client upon order.
4. Including a statement specifying that the report shall not be reproduced except in full without approval of the laboratory can provide assurance that parts of a report are not taken out of context.

TÜV SÜD Asia Ltd. Taiwan Branch
TÜV SÜD Group


Jerry Tsai
Project Handler




Robert Dai
Project Reviewer

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SUMMARY OF TEST RESULTS

| No. | Test Requested | Conclusion | Remark |
|-----|--|-------------|--------|
| 1. | Heavy Metals (Lead, Cadmium, Mercury and Hexavalent Chromium) Content Test | PASS | |
| 2. | Brominated Flame Retardants (PBBs & PBDEs) Content Test | PASS | |
| 3. | Phthalates (DEHP, BBP, DBP and DIBP) Content Test | PASS | |



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1. TESTED SUBJECT DESCRIPTION

| Sample | Description | Photograph |
|--------|-------------------------|--|
| 001 | Gray Hard Plastic Block |  |

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2. TEST RESULT

2.1. Heavy Metals (Lead, Cadmium, Mercury and Hexavalent Chromium) Content Test

Test Method:

- With reference to IEC 62321-4:2014/A1:2017, Determination of Mercury by ICP-OES
- With reference to IEC 62321-5:2014, Determination of Cadmium and Lead by ICP-OES
- With reference to IEC 62321-7-1:2015 and IEC 62321-7-2:2017, Determination of Hexavalent Chromium (Cr(VI)) by UV-Vis

| Element | Cadmium [mg/kg] | Lead [mg/kg] | Mercury [mg/kg] | Hexavalent Chromium [mg/kg] |
|-------------------|-----------------|--------------|-----------------|-----------------------------|
| MDL. | 10.0 | 10.0 | 10.0 | 2.0 |
| RoHS Limit | 100 | 1000 | 1000 | 1000 |
| Sample 001 | <10.0 | <10.0 | <10.0 | *Negative |

Note:

- All concentrations express in "mg/kg" (milligram per kilogram), mg/kg~ppm
- "MDL." denotes Method Detection Limit
- "." denotes passed after carried out X-ray testing
- "<" denotes less than
- The heavy metal content test of the sample in TR_61.406.23.0063.01 was tested in TUV SUD Hong Kong Ltd.

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2.2. Brominated Flame Retardants (PBBs & PBDEs) Content Test

With reference to IEC 62321-6:2015, qualitatively and quantitatively analysed by GC-MSD

[Reporting Limit: 5.0 mg/kg]

| Test Item | | Result [mg/kg] | RoHS Limit [mg/kg] |
|-----------|--------------------------|----------------|---------------------|
| | | Sample 001 | |
| PBBs | Monobromobiphenyl | N.D. | Sum of PBBs < 1000 |
| | Dibromobiphenyl | N.D. | |
| | Tribromobiphenyl | N.D. | |
| | Tetrabromobiphenyl | N.D. | |
| | Pentabromobiphenyl | N.D. | |
| | Hexabromobiphenyl | N.D. | |
| | Heptabromobiphenyl | N.D. | |
| | Octabromobiphenyl | N.D. | |
| | Nonabromobiphenyl | N.D. | |
| | Decabromobiphenyl | N.D. | |
| | <i>Sum of PBBs</i> | N.D. | |
| PBDEs | Monobromodiphenyl ether | N.D. | Sum of PBDEs < 1000 |
| | Dibromodiphenyl ether | N.D. | |
| | Tribromodiphenyl ether | N.D. | |
| | Tetrabromodiphenyl ether | N.D. | |
| | Pentabromodiphenyl ether | N.D. | |
| | Hexabromodiphenyl ether | N.D. | |
| | Heptabromodiphenyl ether | N.D. | |
| | Octabromodiphenyl ether | N.D. | |
| | Nonabromodiphenyl ether | N.D. | |
| | Decabromodiphenyl ether | N.D. | |
| | <i>Sum of PBDEs</i> | N.D. | |

Note:

- All concentrations express in "mg/kg" (milligram per kilogram), mg/kg~ppm
- "N.D." denotes Not Detected
- The PBBs&PBDEs content test of the sample in TR_61.406.23.0063.01 was tested in TUV SUD Hong Kong Ltd.

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2.3. Phthalates (DEHP, BBP, DBP and DIBP) Content Test

With reference to IEC 62321-8:2017, solvent extraction with organic solvent and GC-MS analysis

[Reporting Limit: 50.0 mg/kg]

| Parameter | Result [mg/kg] | RoHS Requirement [mg/kg] |
|---|----------------|--------------------------|
| | Sample 001 | |
| Di-(2-ethylhexyl) phthalate (DEHP) CAS No. 117-81-7 | N.D. | <1000 |
| Benzyl butyl phthalate (BBP) CAS No. 85-68-7 | N.D. | <1000 |
| Dibutyl phthalate (DBP) CAS No. 84-74-2 | N.D. | <1000 |
| Diisobutyl phthalate (DIBP) CAS No. 84-69-5 | N.D. | <1000 |

Note:

- All concentrations express in "mg/kg" (milligram per kilogram), mg/kg~ppm
- "N.D." denotes Not Detected
- The phthalates content test of the sample in TR_61.406.23.0063.01 was tested in TUV SUD Hong Kong Ltd.

-END OF THE TEST REPORT-

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