

# Test Report

No.BCTC-FYC170061021R

Date:Jun. 26, 2017

Page 1 of 4

**Applicant** : Zhuhai Sunlu Industrial Co., Ltd.  
**Address** : Sunlu Industrial Park, No.38 Yongtian Road, Trade Logistics Centre Phase Two, Qianshan, Xiangzhou District, Zhuhai, Guangdong, China.

**The submitted sample and sample information was/were submitted and identified by/on the behalf of the client**

**Sample name** : INTELLIGENT 3D PEN 3.0  
**Testing type /model** : SL-300  
**Additional type /model** : SL-300, SL-300a, SL-300b, SL-400, SL-400a, SL-400b, SL-500, SL-500a, SL-500b, SL-600, SL-600a, SL-600b, SL-700, SL-700a, SL-700b, SL-800, SL-800a, SL-800b, M1, M2, M3, M4, M5  
**Trademark** : N/A  
**Manufacturer** : Zhuhai Sunlu Industrial Co., Ltd.  
**Address** : Sunlu Industrial Park, No.38 Yongtian Road, Trade Logistics Centre Phase Two, Qianshan, Xiangzhou District, Zhuhai, Guangdong, China.  
**Sample received date** : Jun. 21, 2017  
**Testing period** : Jun. 21, 2017 - Jun. 26, 2017  
**Test requested** : As specified by client, to test Polycyclic Aromatic Hydrocarbons (PAHs) in the submitted sample.

**Test Method:**

Tested Item(s)	Test Method	Measured Equipment(s)
Polycyclic Aromatic Hydrocarbons (PAHs)	AfPS GS 2014:01 PAK	GC-MS

\*\*\*\*\*For more detailed information, please refer to the next page\*\*\*\*\*

Tested by




Approved by



Lab:Shenzhen BCTC Testing Co.,Ltd.

Add:BCTC Building & 1-2F,East of B Building,pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street , Bao ' an District, Shenzhen, China

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Page 2 of 4

**Limits for PAHs content for material of (grip) surfaces, which are to be categorized on account of the results of the risk analysis. (Unit: mg/kg)**

Parameters	Category 1	Category 2		Category 3	
	Materials intended to be put in the mouth or materials of toys for long-term skin contact ( longer than 30 seconds )	Materials not covered by category 1, with foreseeable skin contact for long-term ( longer than 30 seconds ) or repeated skin contact for short-term		Materials not covered by category 1 or 2, with foreseeable skin contact for short term (less than 30 seconds)	
		Toys Range in 2009/48/EC	other classified products	Toys Range in 2009/48/EC	other classified products
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenz[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indenol[1,2,3-cd]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	< 1 Sums	< 5 Sums	< 10 Sums	< 20 Sums	< 50 Sums
Naphthalene	< 1	< 2		<10	
18 PAHs SUMs	< 1	< 5	< 10	< 20	< 50

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Date:Jun. 26, 2017

Page 3 of 4

**Tested Sample/Part Description:**

- 1 Gray plastic shell
- 2 Black plastic shell
- 3 Black plastic button

**Test Result(s):**

Tested Item(s)	Result Unit (mg/kg)			MDL Unit (mg/kg)
	1	2	3	
Naphthalene	N.D.	N.D.	N.D.	0.2
Acenaphthylene	N.D.	N.D.	N.D.	0.2
Acenaphthene	N.D.	N.D.	N.D.	0.2
Fluorene	N.D.	N.D.	N.D.	0.2
Phenanthrene	N.D.	N.D.	N.D.	0.2
Anthracene	N.D.	N.D.	N.D.	0.2
Fluoranthene	N.D.	N.D.	N.D.	0.2
Pyrene	N.D.	N.D.	N.D.	0.2
Acenaphthylene+Acenaphthene+ Fluorene+Phenanthrene+Pyrene+ Anthracene+Fluoranthene SUMs	N.D.	N.D.	N.D.	/
Chrysene	N.D.	N.D.	N.D.	0.2
Benzo[a]anthracene	N.D.	N.D.	N.D.	0.2
Benzo[b]fluoranthene	N.D.	N.D.	N.D.	0.2
Benzo[k]fluoranthene	N.D.	N.D.	N.D.	0.2
Benzo[j]fluoranthene	N.D.	N.D.	N.D.	0.2
Benzo[a]pyrene	N.D.	N.D.	N.D.	0.2
Benzo[e]pyrene	N.D.	N.D.	N.D.	0.2
Indeno[1,2,3-cd]pyrene	N.D.	N.D.	N.D.	0.2
Dibenz[a,h]anthracene	N.D.	N.D.	N.D.	0.2
Benzo[g,h,i]perylene	N.D.	N.D.	N.D.	0.2
18 PAHs SUMs	N.D.	N.D.	N.D.	/

**Note:**

-MDL = Method Detection Limit

-N.D. = Not Detected (&lt;MDL)

-mg/kg = ppm = parts per million

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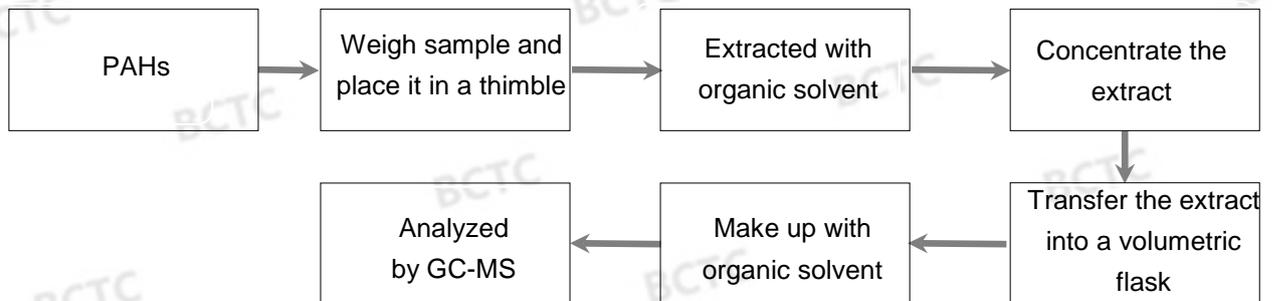
No.BCTC-FYC170061021R

Date:Jun. 26, 2017

Page 4 of 4

**Test Process:**

◆AfPS GS 2014:01 PAK



Photograph of Sample



\*\*\*\*\* End of Report \*\*\*\*\*