



Test Report

Date : 2022-07-29
No. : DP22070716

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Applicant : DONGGUAN HONGXIN INTELLIGENT TECHNOLOGY CO., LTD
NO.497.NORTH OF TANGXIA ROAD,TANGXIA TOWN,
DONGGUAN CITY,GUANGDONG PROVINCE,CHINA

Attn: 杨小姐

Description of Samples : One kind of submitted sample(s) said to be :
Item name:ELASTIC STAPLE PIN (see the attached photo)

Date Samples Received : 2022-07-26

Date Tested : 2022-07-26 to 2022-07-29

Investigation Requested : 1.European Union's Directive 2011/65/EU and (EU) 2015/863:
Restrictive use of certain hazardous substance(ROHS)
- Heavy metals contents
- Phthalates content
- Polybrominated biphenyls (PBBs) and Polybrominated diphenyl ethers (PBDEs) contents
2.Environmental-Packaging heavy elements contents in accordance with Mattel Specification QSOP #0006-5000 Rev. 1.00

Conclusion(s) : European Union's Directive 2011/65/EU and (EU) 2015/863
The submitted sample(s) **complied** with the test requirement.

Mattel Specification QSOP #0006-5000 Rev. 1.00
The submitted sample(s) **complied** with the test requirement.

HUANG Qi-yin, Shanny
Authorized Signatory



STC (Dongguan) Company Limited

68 Fumin Nan Road, Dalang, Dongguan, Guangdong, China. Zip Code: 523770

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Tested components

Plastic materials

- (1) Elastic staple pin:translucent plastic

Test Results:

1. Restriction of the use of certain hazardous substances (RoHS)

1.1 Heavy metals contents

Ref.: European Union's Directive 2011/65/EU and (EU)2015/863.

Method: IEC 62321-4: 2013+A1:2017 & IEC 62321-5:2013 & IEC 62321-7-1:2017 and IEC 62321-7-2:2017

Determined by: 1. Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer for Lead, Mercury, Cadmium, Chromium
2. UV/Vis spectrometry for Hexavalent chromium

<u>Parameters</u>	<u>Result (%)</u>	<u>MDL (%)</u>	<u>Permitted Level (%)</u>
	(1)		
Lead	ND	0.0005	0.1
Mercury	ND	0.0002	0.1
Cadmium	ND	0.0005	0.01
Hexavalent Chromium	ND	0.0005	0.1

Note(s): (1) ND = Not detected (Below MDL)
(2) MDL = Method Detection limit
(3) % = percentage by weight

1.2 Phthalates content

Ref.: European Union's Directive 2011/65/EU and (EU)2015/863.

Method: IEC 62321-8:2017

Determined by: Gas Chromatography Mass spectrometer

<u>Parameters</u>	<u>Result(%)</u>	<u>MDL(%)</u>	<u>Permitted Level(%)</u>
	(1)		
Bis(2-ethylhexyl)phthalate(DEHP)	ND	0.01	0.1
Butyl benzyl phthalate(BBP)	ND	0.01	0.1
Dibutyl phthalate(DBP)	ND	0.01	0.1
Diisobutyl phthalate(DIBP)	ND	0.01	0.1

Note(s): (1) ND = Not detected (Below MDL)
(2) MDL = Method Detection limit for DBP, BBP, DEHP and DIBP is 0.01%.
(3) % = percentage by weight

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1.3 Polybrominated biphenyls (PBBs) and Polybrominated diphenyl ethers (PBDEs) contents

Ref.: European Union's Directive 2011/65/EU and (EU)2015/863.

Method: IEC 62321-6:2015

Determined by: Gas Chromatography Mass spectrometer

<u>Parameters</u>	<u>Result(%)</u>	<u>MDL(%)</u>	<u>Permitted Level(%)</u>
	(1)		
Monobromobiphenyl	ND	0.003	--
Dibromobiphenyl	ND	0.003	--
Tribromobiphenyl	ND	0.003	--
Tetrabromobiphenyl	ND	0.003	--
Pentabromobiphenyl	ND	0.003	--
Hexabromobiphenyl	ND	0.003	--
Heptabromobiphenyl	ND	0.003	--
Octabromobiphenyl	ND	0.003	--
Nonabromobiphenyl	ND	0.003	--
Decabromobiphenyl	ND	0.003	--
Sum of PBBs	ND	0.003	0.1
Monobromodiphenyl ether	ND	0.003	--
Dibromodiphenyl ether	ND	0.003	--
Tribromodiphenyl ether	ND	0.003	--
Tetrabromodiphenyl ether	ND	0.003	--
Pentabromodiphenyl ether	ND	0.003	--
Hexabromodiphenyl ether	ND	0.003	--
Heptabromodiphenyl ether	ND	0.003	--
Octabromodiphenyl ether	ND	0.003	--
Nonabromodiphenyl ether	ND	0.003	--
Decabromodiphenyl ether	ND	0.003	--
Sum of PBDEs	ND	0.003	0.1

Note(s): (1) ND = Not detected (Below MDL)

(2) MDL =Method Detection limit

(3) % = percentage by weight

2. **Heavy elements contents**

Test Method: Mattel Specification QSOP #0006-5000 Rev. 1.00

Determined by: 1.Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

2.UV/Vis spectrometry for Hexavalent chromium

<u>Element</u>	<u>Result(ppm)</u>	<u>Limit(ppm)</u>
	(1)	
Lead(Pb)	ND	--
Cadmium(Cd)	ND	--
Chromium (VI)(Cr(VI))	ND	--
Mercury(Hg)	ND	--

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<u>Element</u>	<u>Result(ppm)</u>	<u>Limit(ppm)</u>
	(1)	
Sum of (Pb+Cd+Cr(VI)+Hg)	ND	100

Note(s): (1) ND = Not Detected(Below MDL), Method detection limit (MDL) for Total Cd, Pb, Cr(VI), Hg are 5ppm;
(2) ppm = parts per million.

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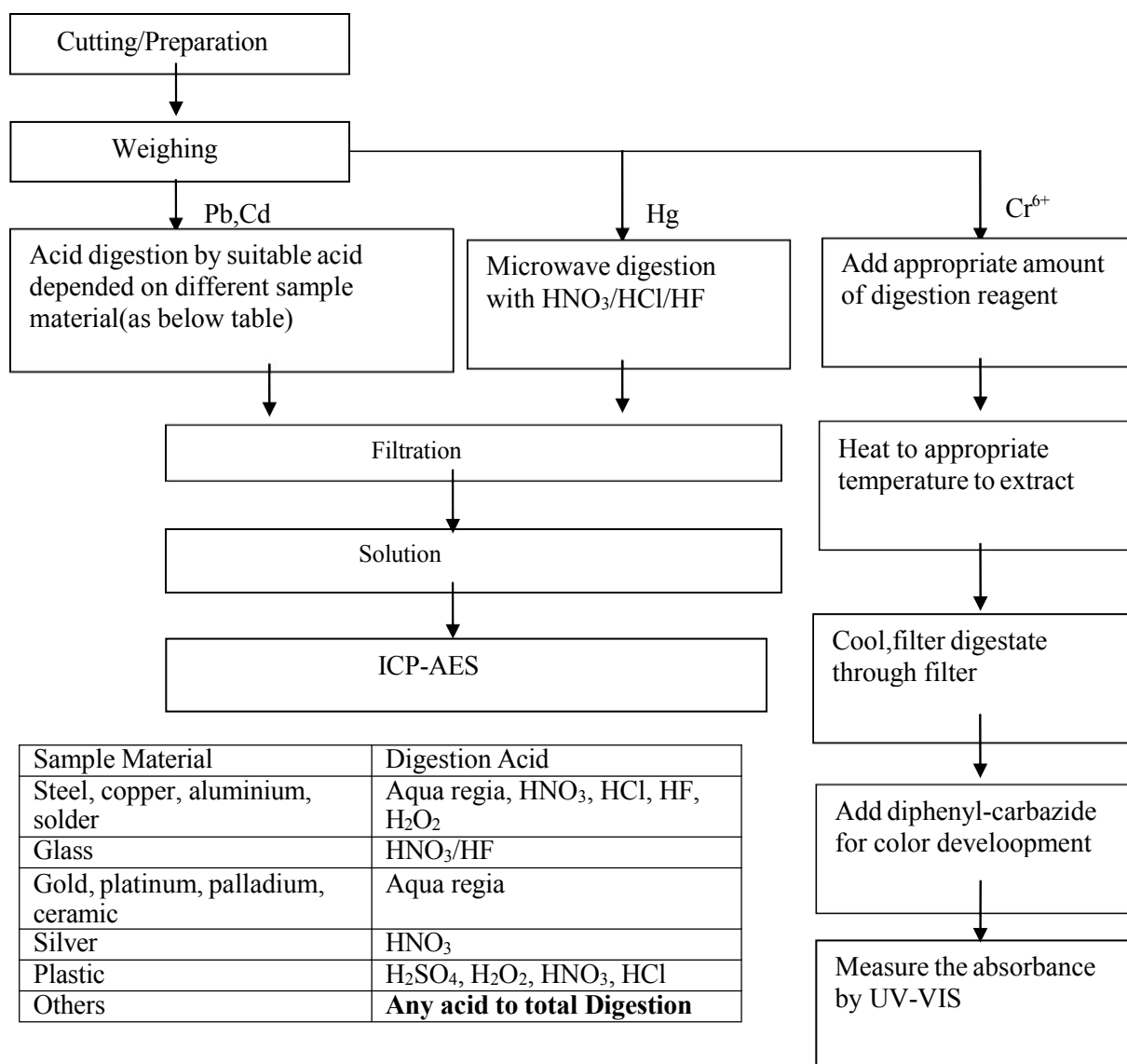
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ROHS Heavy metals test procedure chart

This sample were dissolved totally by pre-conditioning method according to below flow Chart(Cr⁶⁺ and PBBS/PBDEs test method excluded)



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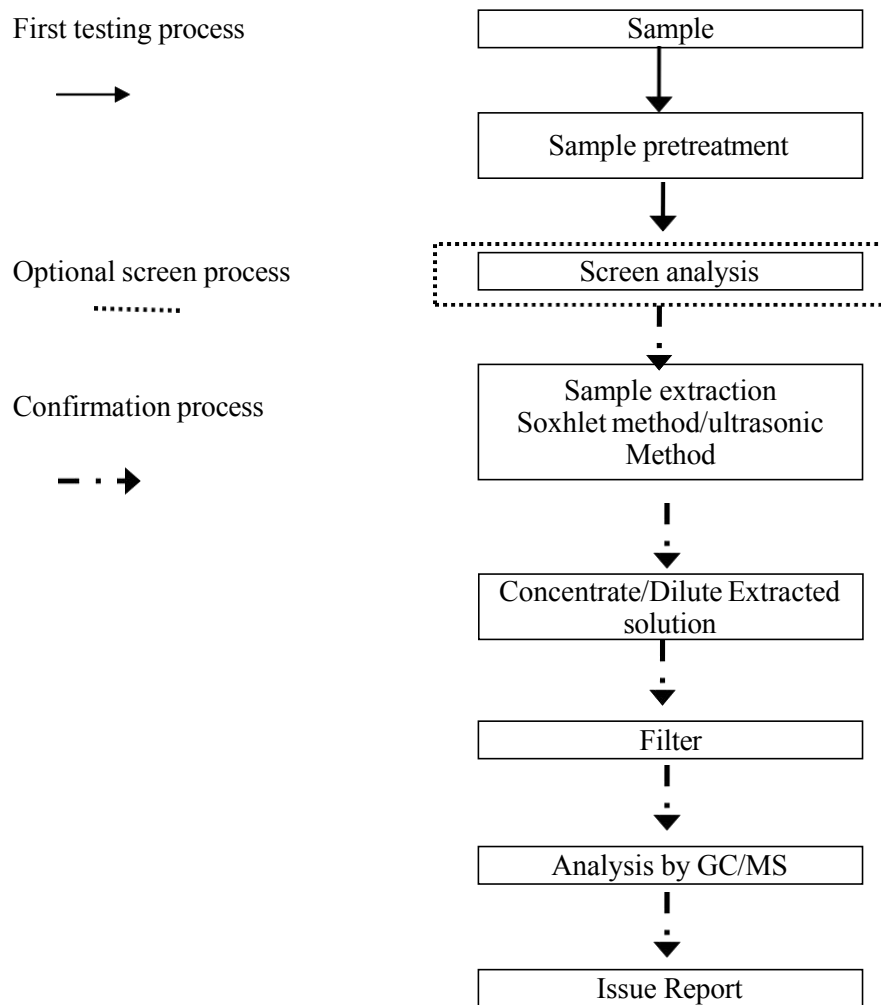


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PBB/PBDE analytical FLOW CHART



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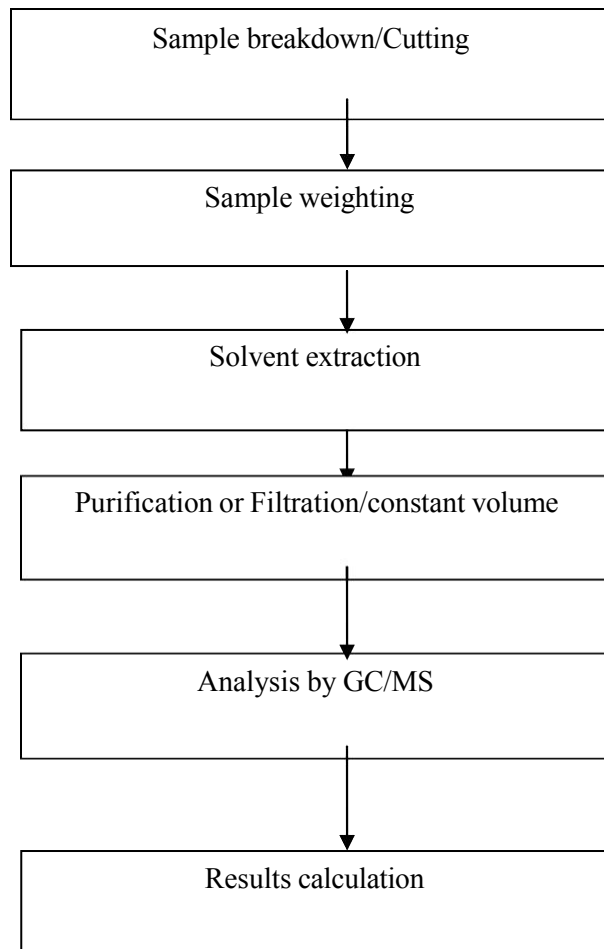


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Phthalate



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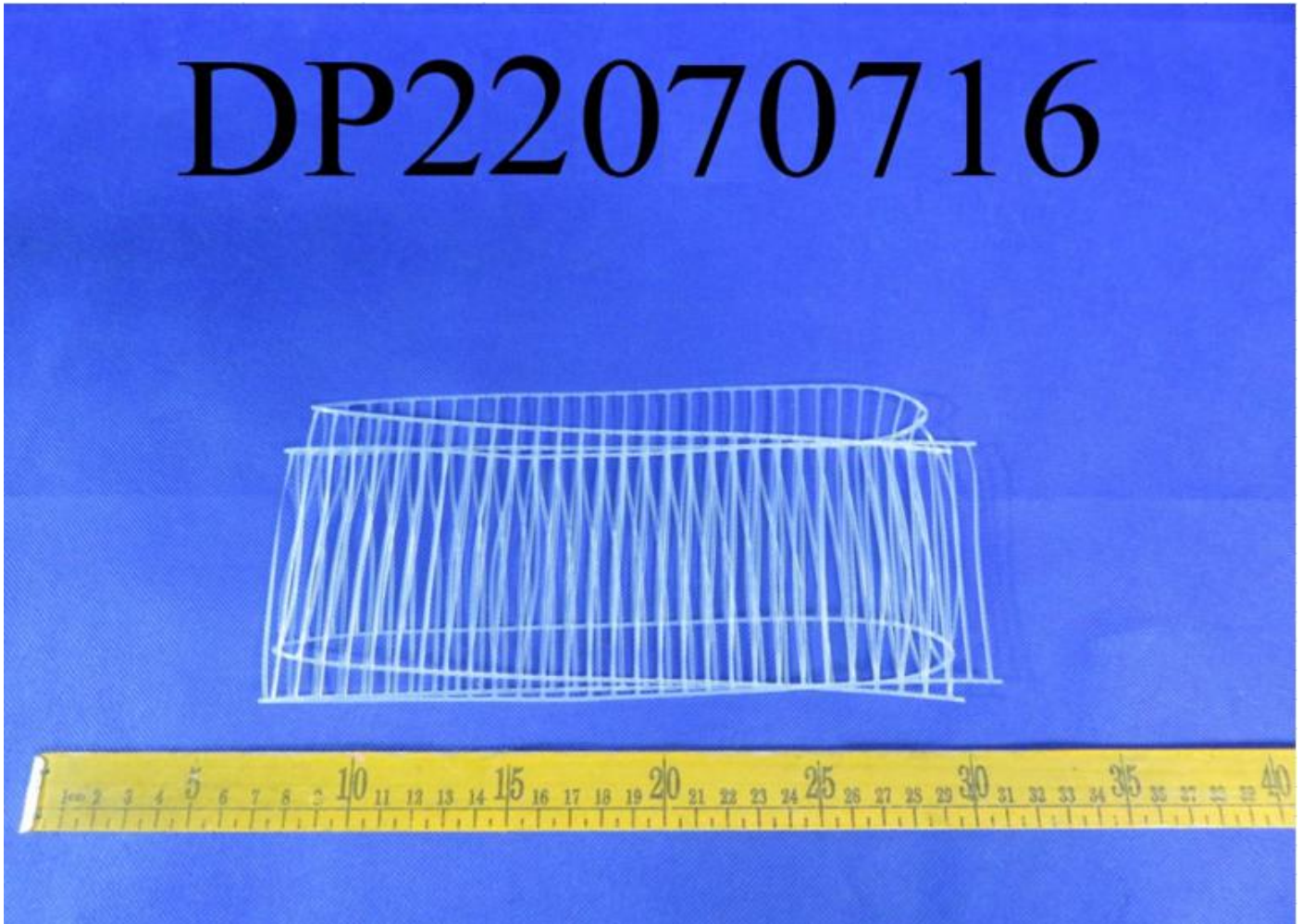


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Appendix for Photos of the Submitted Sample(s)



***** End of Test Report *****

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