

Test Report

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Report No.: SHSX180821002

Applicant: Zhejiang Zhenghao Plastic Co.,Ltd.

Address: Shangwu Industiral Area, Liushi Town, Yueqing County, Wenzhou, Zhejiang

The following sample(s) was/were submitted and identified on behalf of the clients as:

Sample Name: Nylon Cable Ties

Date Received: Aug 15, 2018

Test Period: Aug 16, 2017 to Aug 21, 2017

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

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

Test Conclusion: Based on the performed tests on submitted samples, the results of Lead,Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBBEs) and Phthalates such as Bis(2-ethylhexyl) Phthalate (DEHP), Butyl benzyl Phthalate(BBP), Dibutyl Phthalate(DBP), and Diiso butyl Phthalate (DIBP) comply with the limits as set by RoHS Directive (EU)2015/863 amending Annex II to Directive 2011/65/EC.

Signed for and on behalf of
Shanghai Shangxun Testing Technology Co.,Ltd

Authorized Signature:



In no circumstances shall the company is responsibility extend beyond inspection, testing and reporting upon the samples actually drawn from the bulk and inspected, tested and surveyed by the Company and any inference to be drawn from the results of such inspection or survey or testing shall be entirely in the discretion and the sole and exclusive responsibility of the Principal. This test report cannot be reproduced except in full.

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Test Result:

Sapmle Number:SHSX.MA02731

Notes:

- (1) 1 mg/kg = 0.0001%.
- (2) MDL = Method Detection Limit.
- (3) ND = Not Detected(MDL).
- (4) "-" = Not Regulated.

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Test Method:

- (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
- (2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
- (3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
- (4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
- (6) With reference to EN 14372:2004, determination of phthalates by GC-MS.

Test Items	Limit	Unit	MDL	Results
Cadmium(Cd)	100	mg/kg	2	N.D.
Lead(Pb)	1,000	mg/kg	2	N.D.
Mercury(Hg)	1,000	mg/kg	2	N.D.
Hexavalent Chromium(CrVI)	1,000	mg/kg	2	N.D.
Sum of PBBs	1,000	mg/kg	-	N.D.
Monobromobiphenyl	-	mg/kg	5	N.D.
Dibromobiphenyl	-	mg/kg	5	N.D.
Tribromobiphenyl	-	mg/kg	5	N.D.
Tetrabromobiphenyl	-	mg/kg	5	N.D.
Pentabromobiphenyl	-	mg/kg	5	N.D.
Hexabromobiphenyl	-	mg/kg	5	N.D.
Heptabromobiphenyl	-	mg/kg	5	N.D.
Octabromobiphenyl	-	mg/kg	5	N.D.
Nonabromobiphenyl	-	mg/kg	5	N.D.
Decabromobiphenyl	-	mg/kg	5	N.D.
Sum of PBDEs	1,000	mg/kg	-	N.D.
Monobromobiphenyl ether	-	mg/kg	5	N.D.
Dibromobiphenyl ether	-	mg/kg	5	N.D.
Tribromobiphenyl ether	-	mg/kg	5	N.D.

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<u>Test Items</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Results</u>
Tetrabromobiphenyl ether	-	mg/kg	5	N.D.
Pentabromobiphenyl ether	-	mg/kg	5	N.D.
Hexabromobiphenyl ether	-	mg/kg	5	N.D.
Heptabromobiphenyl ether	-	mg/kg	5	N.D.
Octabromobiphenyl ether	-	mg/kg	5	N.D.
Nonabromobiphenyl ether	-	mg/kg	5	N.D.
Decabromobiphenyl ether	-	mg/kg	5	N.D.
Dibutyl phthalate(DBP)	1,000	mg/kg	30	N.D.
Butyl benzyl phthalate(BBP)	1,000	mg/kg	30	N.D.
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	30	N.D.
Diisobutyl Phthalates(DIBP)	1,000	mg/kg	30	N.D.

Notes:

- (1)The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2)The result(s) shown is/are of the total weight of wet sample.

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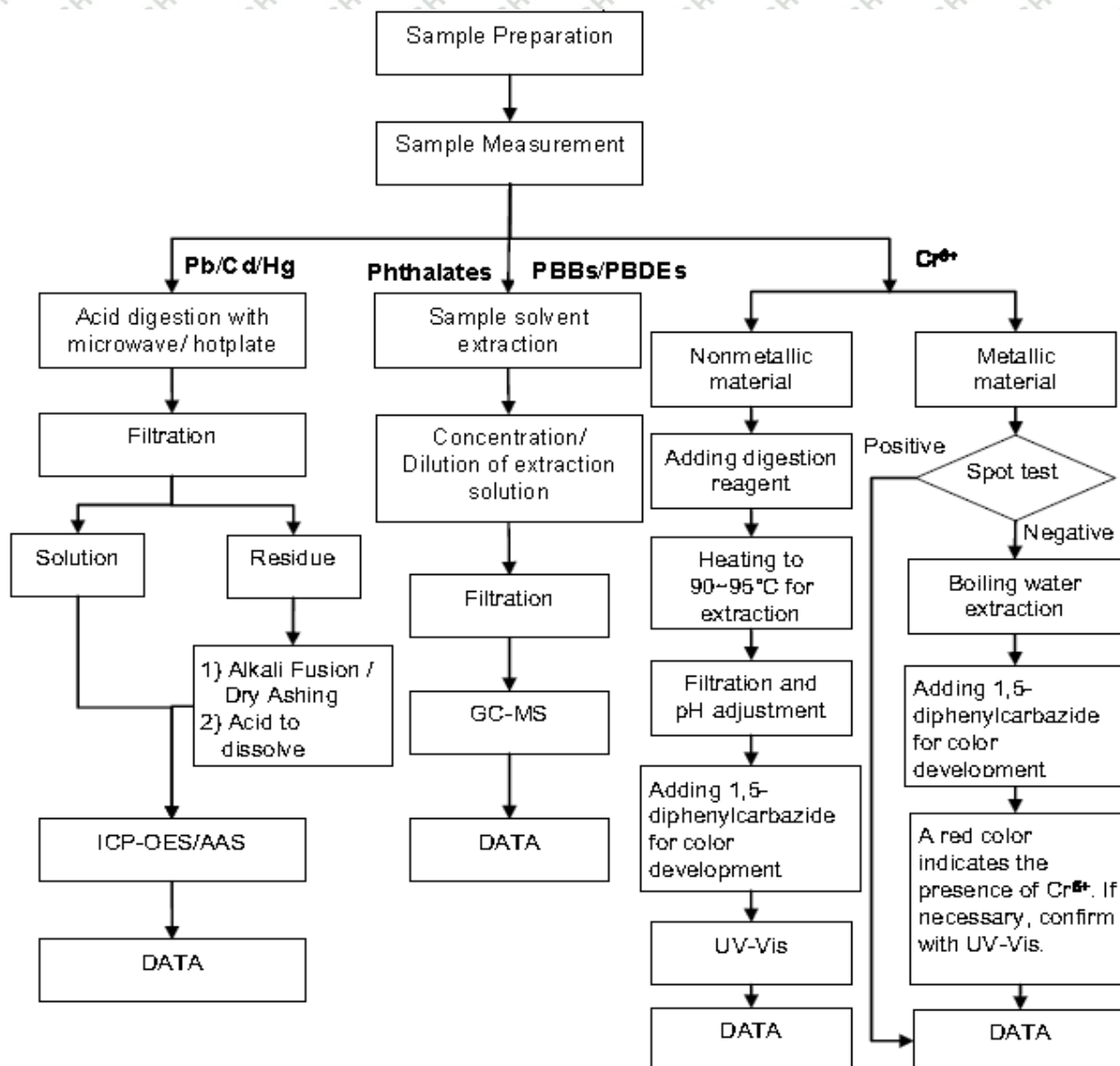
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ATTACHMENTS:

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bella Lu / David Zhang
- 2) Name of the person in charge of testing: Sharon Liu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺, PBBs/PBDEs, Phthalates test method excluded).



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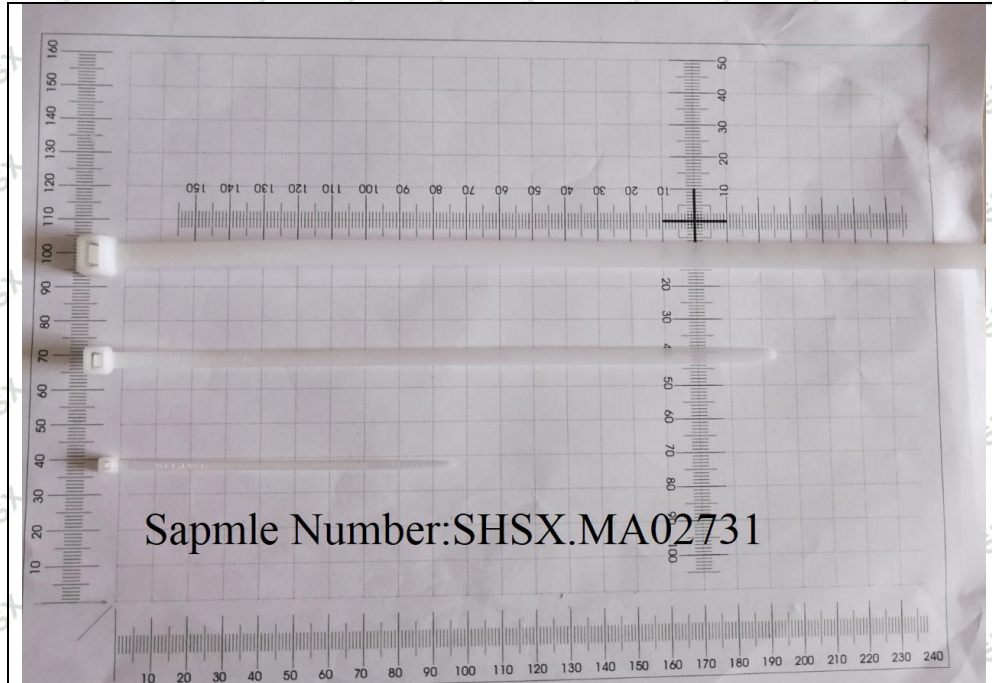
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Sample Picture:



*** End of Report ***

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