

Test Report

No. NGBML1606142202 A01

Date: 06 Jan 2017

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CHANGZHOU DITAI NEW MATERIALS TECHNOLOGY CO.,LTD

NO.6, RONGSHENG ROAD, HENGLIN TOWN, JINGKAI DISTRICT, CHANGZHOU, JIANGSU, CHINA

THIS REPORT IS TO SUPERSEDE TEST REPORT NO. NGBML1606142201 DATE: 2016/12/29

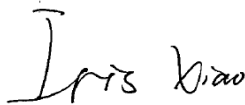
The following sample(s) was/were submitted and identified on behalf of the clients as : SPC VINYL FLOORING

SGS Job No. : NBIN1612012193PC - NB
 Date of Sample Received : 20 Dec 2016
 Testing Period : 20 Dec 2016 - 29 Dec 2016
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	See Results
Entry 51 & 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC)-Phthalates content	PASS

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch



Iris Xiao
 Approved Signatory



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 Ningbo Branch Chemical Laboratory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	NGB16-061422.001	GREY SOLID WITH BROWN/DARK BROWN FILM(MIXED)

Remarks :

- (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.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1000	mg/kg	2	ND

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) The sample was analyzed on behalf of the applicant as mixing sample in one testing. The above result was only given as the informality value and only for reference.

Entry 51 & 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC)-Phthalates content

Test Method : With reference to EN14372: 2004, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
1. For all toys and childcare articles					
Dibutyl Phthalate (DBP)	84-74-2	-	%	0.003	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Benzylbutyl Phthalate (BBP)	85-68-7	-	%	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	-	%	0.003	0.016
Total (DBP+BBP+DEHP)		0.1	%	-	0.016

2. For toys and childcare articles that can be mouthed

Diisononyl Phthalate (DINP)	28553-12-0/68515-48-0	-	%	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/68515-49-1	-	%	0.010	ND
Total (DINP+DNOP+DIDP)		0.1	%	-	ND

Conclusion

PASS

Notes :

- (1) European Parliament adopted new phthalate Entry 51 & 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC);
- (1-1) DBP, BBP and DEHP are totally banned for use in any toys on childcare articles where their concentration exceeds 0.1% by mass.
- (1-2) DINP, DNOP, DIDP are totally banned for use in toys and childcare articles that can be mouthed where their concentration exceeds 0.1% by mass.



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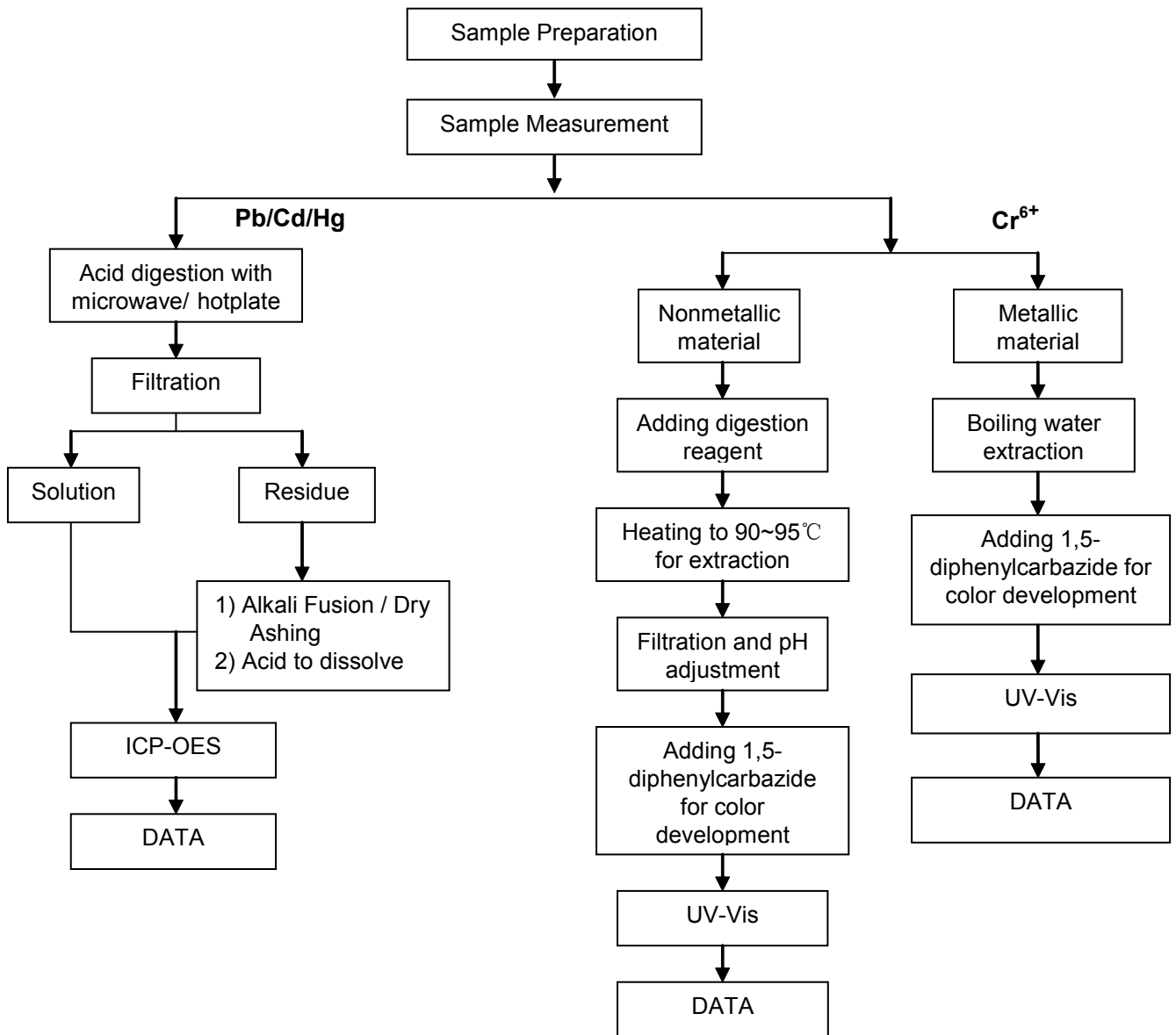
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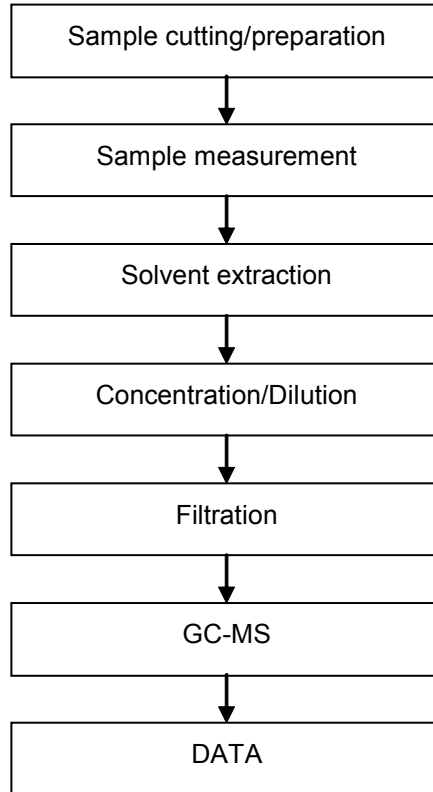
RoHS Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)



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Phthalates Testing Flow Chart



Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

