

Test Report

No. NGBML1501345706 A01

Date: 13 May 2015

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YUEQING DALIER ELECTRICAL FACTORY

(SHANG FENG VILLAGE)EAST ROAD QIAO HOUYANG LIUSHI YUEQING,ZHEJIANG PROVINCE,CHINA

THIS REPORT IS TO SUPERSEDE TEST REPORT No. NGBML1501345704 DATE: 2015/05/07

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

SGS Job No. : NBIN1504003410PC - NB
Product Specification : E2508
Client Ref. Information : SEE ATTACHMENT
Date of Sample Received : 28 Apr 2015
Testing Period : 28 Apr 2015 - 05 May 2015
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).

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



Iris Xiao
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	NGB15-013457.001	SILVERY METAL
SN2	NGB15-013457.004	BLUE PLASTIC

Remarks :

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

RoHS 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 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	004
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
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

Notes :

(1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II

RoHS 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 spot test / Colorimetric Method using UV-Vis.

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

Notes :

(1) The maximum permissible limit is quoted from directive 2011/65/EU, Annex II
 (2) ◇Spot-test:
 Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating;
 (The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)
 ◇Boiling-water-extraction:
 Negative = Absence of Cr(VI) coating
 Positive = Presence of Cr(VI) coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
 Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.



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ATTACHMENT

TE 0508	E4018	EN1012	EN16-18
TE 7508	E6010	EN1015	EN16-20
TE 7510	E6012	EN1018	EN16-22
TE 1008	E6018	EN1020	EN16-25
TE 1010	E10-12	EN1507	EN16-30
TE 1508	E10-18	EN1508	EN16-62
TE 1512	E16-12	EN1510	EN25-12
TE 2510	E16-18	EN1512	EN25-15
TE 2513	E25-12	EN1515	EN25-16
TE 4012	E25-16	EN1518	EN25-18
TE 6014	E25-18	EN1520	EN25-20
TE 10-14	E25-22	EN2506	EN25-22
TE 16-14	E35-16	EN2507	EN25-25
	E35-18	EN2508	EN25-30
E0505	E35-25	EN2510	EN25-32
E0506	E50-20	EN2512	EN35-12
E0508	E50-25	EN2515	EN35-15
E0510	E70-20	EN2518	EN35-16
E0512	E70-25	EN2520	EN35-18
E7506	E95-25	EN2525	EN35-20
E7508	E120-27	EN4009	EN35-25
E7510		EN4010	EN35-30
E7512		EN4012	EN35-32
E7518	EN0206	EN4015	EN50-12
E1006	EN0207	EN4018	EN50-18
E1008	EN0208	EN4020	EN50-22
E1010	EN0306	EN6006	EN50-25
E1012	EN0308	EN6010	EN50-30



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E1018	EN0505	EN6012	EN50-32
E1508	EN0506	EN6015	EN70-22
E1510	EN0508	EN6018	EN70-25
E1512	EN0510	EN6020	EN70-30
E1518	EN0512	EN10-12	EN70-32
E2508	EN7506	EN10-15	EN95-25
E2510	EN7508	EN10-16	EN95-30
E2512	EN7510	EN10-18	EN95-32
E2518	EN7512	EN10-25	EN95-34
E4009	EN1006	EN16-12	EN120-30
E4010	EN1008	EN16-15	EN120-32
E4012	EN1010	EN16-16	EN150-32



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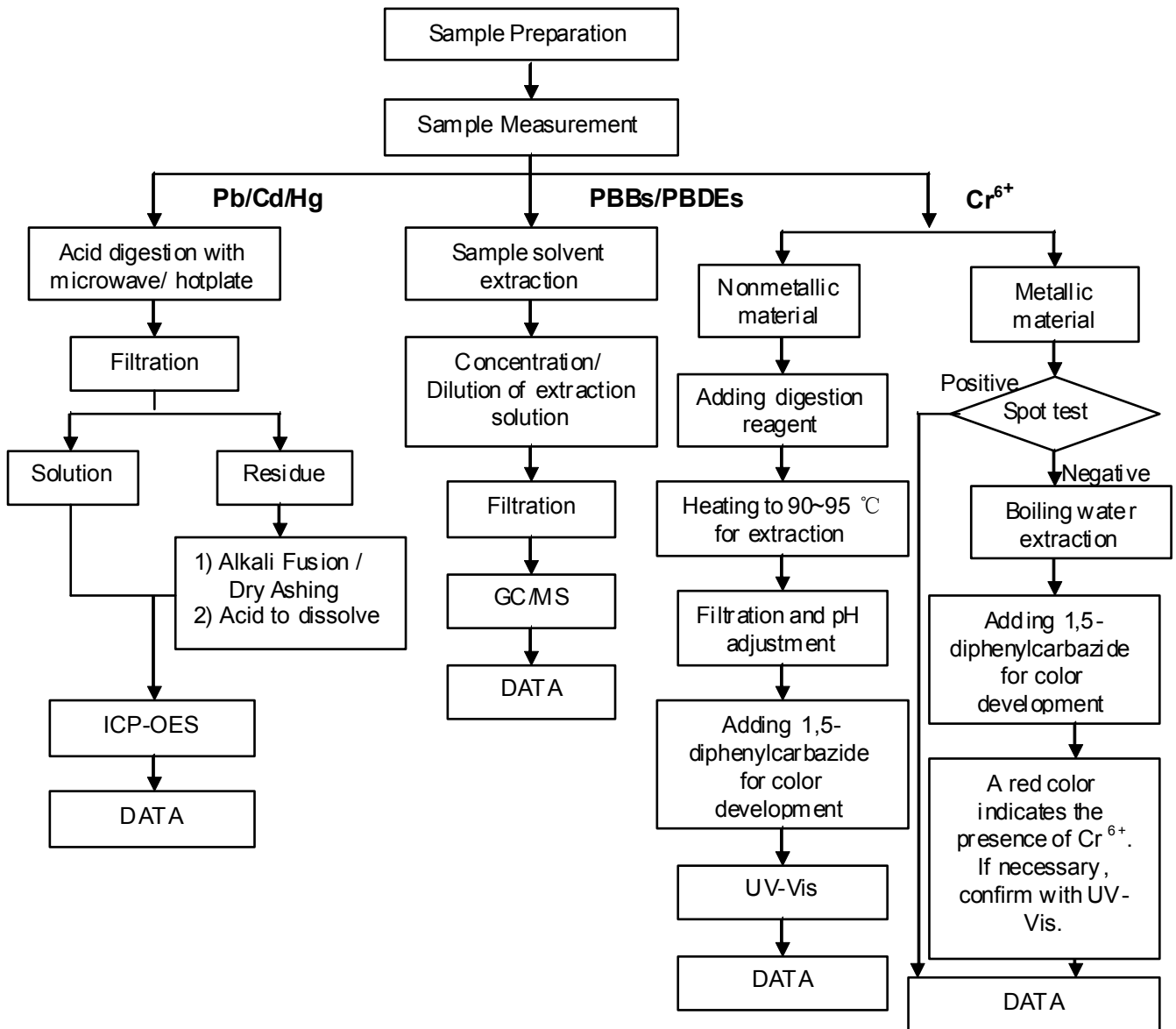
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RoHS Testing Flow Chart

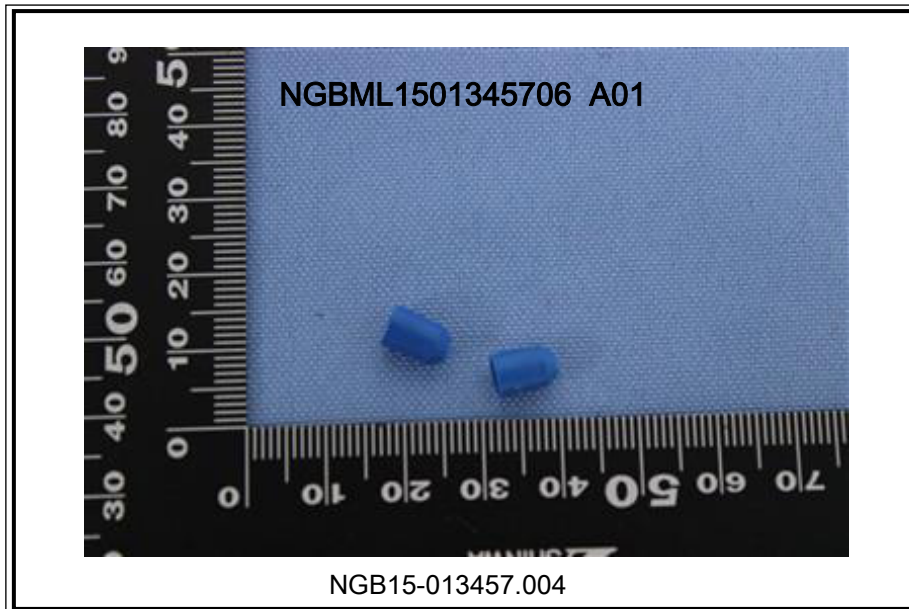
- 1) Name of the person who made testing: Martin Ding /Pearson Zhou
- 2) Name of the person in charge of testing: Iris Xiao
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded)



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