

Test Report No. XMNML1901705306 Date: 11 Dec 2019 Page 1 of 10

HOLLYLAND(CHINA) ELECTRONICS TECHNOLOGY CORPORATION LIMITED & HOLLYLAND(XIAMEN) TECHNOLOGY CORPORATION LIMITED

NO.829, FANGSHAN EAST 2ND ROAD, XIANG'AN, XIAMEN, CHINA

Results and photos of this report refer to test report XMNML1901705301

The following sample(s) was/were submitted and identified on behalf of the clients as: Material for 5RF.5RT.5EF.5ET.SCH.SCT.SRT RoHS & Pb Free Series

SGS Job No.: XMIN1911008452PC - XM

Date of Sample Received: 22 Nov 2019

Testing Period: 22 Nov 2019 - 06 Dec 2019

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).

Conclusion: Based on the performed tests on selected part of submitted sample(s), the

results of Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Rae Chen

Approved Signatory

Rae chem





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Test Results:

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	XMN19-017053.018	Red brown plastic part(said to be"Red brown plastic part ")
SN2	XMN19-017053.019	Black plastic part(said to be"Black plastic part ")
SN3	XMN19-017053.020	White thread part(said to be"White soft material")
SN4	XMN19-017053.021	Silver-gray metal thread part(said to be"Grey metal thread ")
SN5	XMN19-017053.022	Gray silica sand(said to be"Grey-white solid grain")
SN6	XMN19-017053.023	Silvery metal pin(said to be"Silvery metal pin")

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: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>018</u>	<u>019</u>	<u>020</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>018</u>	<u>019</u>	<u>020</u>
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND	ND
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>		
Cadmium (Cd)	100	mg/kg	2	ND		
Lead (Pb)	1,000	mg/kg	2	ND		
Mercury (Hg)	1,000	mg/kg	2	ND		
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND		
Sum of PBBs	1,000	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	1,000	mg/kg	-	ND		
Monobromodiphenyl ether	-	mg/kg	5	ND		
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		



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>		
Heptabromodiphenyl ether	-	mg/kg	5	ND		
Octabromodiphenyl ether	-	mg/kg	5	ND		
Nonabromodiphenyl ether	-	mg/kg	5	ND		
Decabromodiphenyl ether	-	mg/kg	5	ND		
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND		
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND		
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND		
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND		

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- IEC 62321 series is equivalent to EN 62321 series
- https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP ORG ID,FSP LANG ID:12586 37,25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

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

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>021</u>	<u>023</u>
Cadmium (Cd)	100	mg/kg	2	ND	ND
Lead (Pb)	1,000	mg/kg	2	9	5
Mercury (Hg)	1,000	mg/kg	2	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND	ND

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

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- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm2. The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm2). The



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coating is considered a non-CrVI based coating

c. The result between 0.10 µg/cm2 and 0.13 µg/cm2 is considered to be inconclusive unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Date: 11 Dec 2019

Remark: The test was subcontracted to SGS Guangzhou chemical lab.



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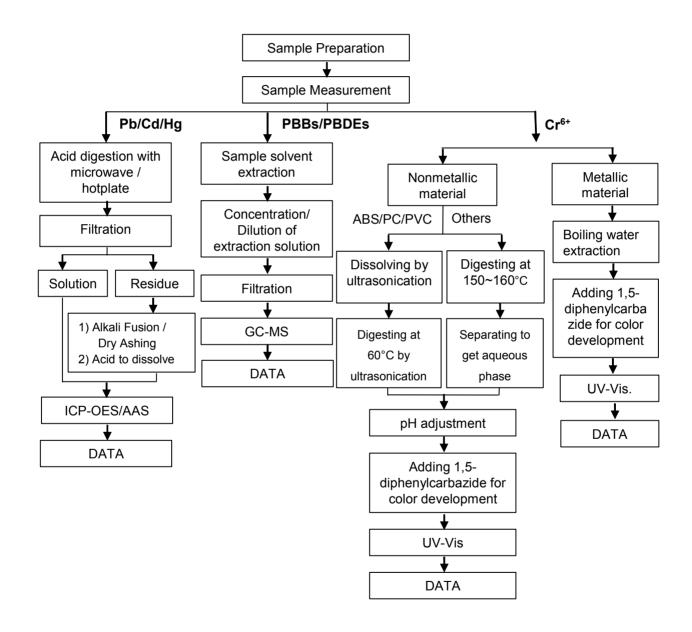
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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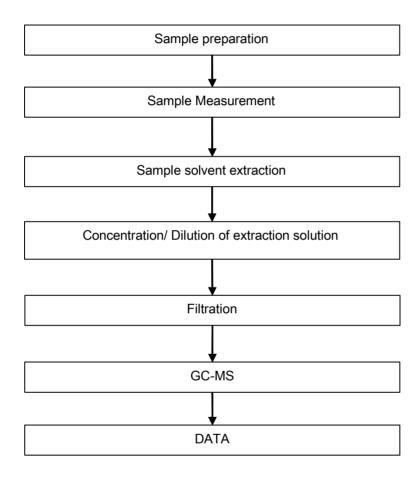
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Phthalates Testing Flow Chart



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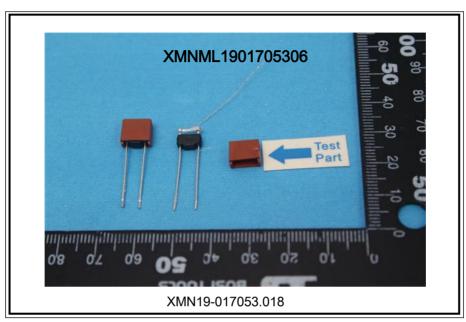


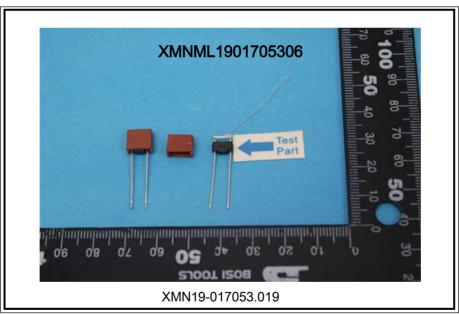
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Sample photo:







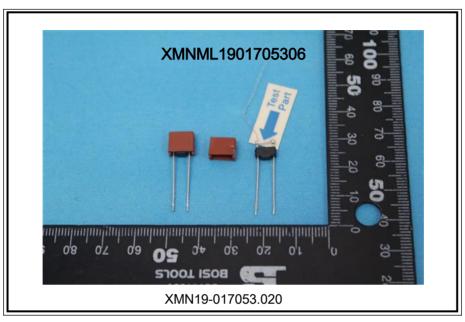
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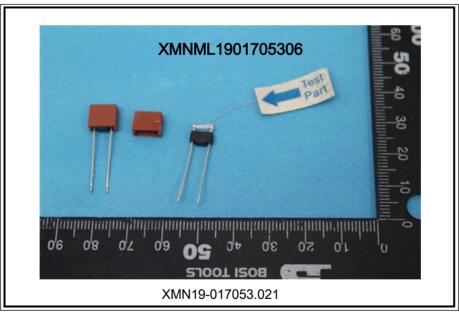
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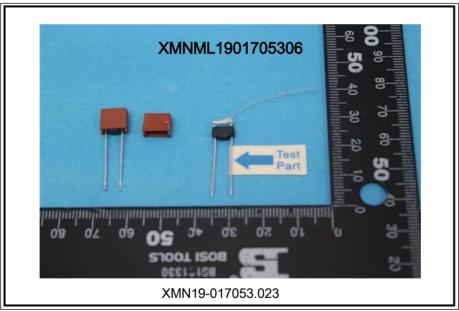
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