

Report No.: AGC07686200501-002

AGC

Date: Jun.02, 2020

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Applicant:	Shenzhen Renhotec Technology Electronics Co., Ltd
A 14- C	8th Floor, Building 1, Yongfu Science and Technology Innovation Center Industrial Park,
Address:	Nanzha District 5, Humen Town, Dongguan City, China
Test site:	6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'a
	District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name:	GX12 connector
Test model No.:	GX12
Series model No.	GX12, GX14 ,GX15 ,GX16,GX17,GX18, GX19 ,GX20 ,GX25 ,
Series model ino	GX30,GX35 ,GX40,GX48,GX50,GX60
Difference between test	
model and series model:	Only size and volume difference
Supplier:	Renhotec
Manufacturer:	Shenzhen Renhotec Technology Electronics Co., Ltd
Address:	8th Floor, Building 1, Yongfu Science and Technology Innovation Center Industrial
Address.	Park, Nanzha District 5, Humen Town, Dongguan City, China
Sample Received Date:	May 27, 2020
Testing Deriod	
Testing Period.	May 27, 2020 to Jun.02, 2020

Test Requested:

Conclusion

As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 on XRF and Chemical Method.

Pass

Approved by:



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No.	Sample Description	- Ci	8	20	-
1.		G	Metalwork		
2.			Metal screw		
3.	Connector		Metal rand	SO	
4.			Black plastic		5
5.			White rubber sleeve	®	

Test Result:

(Test Method/ Instrument/ MDL and Limit: See Appendix)

N	Test result (mg/kg)							C			
NO.	Pb	Cd	Hg	Cr ⁶⁺	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	Conclusion
1	506	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
2	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
3	N.D.	N.D.	N.D.	N.D.	N/A	N/A®	N/A	N/A	N/A	N/A	Conformity
4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity

Note:

mg/kg = milligram per kilogram

N.D.=Not Detected (less than method detection limit)

MDL = Method Detection Limit

 μ g/cm² = microgram per square centimeter N/A= Not applicable

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Remark:

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- *denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, nonuniformity composition, surface flatness.
- This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

Doning water	extraction.						
Number	Colorimetric result (Cr(VI) concentration)	Qualitative result					
		The sample is negative for Cr(VI) – The Cr(VI)					
	The sample solution is <the 0,10="" cm<sup="" µg="">2</the>	concentration is below the limit of					
	equivalent comparison standard solution	quantification. The coating is considered a					
		non-Cr(VI) based coating.					
	The sample solution is \geq the 0,10 µg/cm ²	solution is \geq the 0,10 µg/cm ² The result is considered to be inconclusive –					
2	and \leq the 0,13 µg/cm ² equivalent	Unavoidable coating variations may influence					
	comparison standard solutions	the determination.					
0		The sample is positive for Cr(VI) – The Cr(VI)					
3	The sample solution is > the 0,13 μ g/cm ²	concentration is above the limit of quantification					
	equivalent comparison standard solution	and the statistical margin of error. The sample					
		coating is considered to contain Cr(VI).					
NI	(1, 1, 1) = CO(M)						

Boiling-water-extraction:

Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.

Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.

Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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Appendix:									
Test Item	Test Method/ Instrument	MDL	Limit						
X-ray Fluorescence Spectrometry(XRF)									
Lead (Pb)		200mg/kg	≤1000mg/kg						
Cadmium (Cd)		50mg/kg	≤100mg/kg						
Mercury (Hg)	IEC 62321-3-1:2013 / XRF	200mg/kg	≤1000mg/kg						
Total Chromium		200mg/kg	1						
Total Bromine		200mg/kg	/ ®						
Wet Chemistry Method		0	-C						
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	10mg/kg	≤1000mg/kg						
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	10mg/kg	≤100mg/kg						
Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	10mg/kg	≤1000mg/kg						
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	≤1000mg/kg						
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015/ UV-Vis	$0.1 \mu g/cm^2$	e /						
 Polybrominated Biphenyls (PBBs) -Monobromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromodiphenyl (DecaBB) -Decabromodiphenyl (DecaBB) 	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum ≤1000mg/kg						
 PolybrominatedDiphenylethers (PBDEs) -Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HetraBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE) 	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum ≤1000mg/kg						
Di-iso-butyl phthalate (DIBP)		50mg/kg	≤1000mg/kg						
Dibutyl phthalate (DBP)		50mg/kg	≤1000mg/kg						
Butylbenzyl phthalate (BBP)	1EC 62321-8:2017/ GC-MS	50mg/kg	≤1000mg/kg						
Di-(2-ethylhexyl) Phthalate (DEHP)	GU - G	50mg/kg	≤1000mg/kg						

Note:

 \leq "= Less than or equal to

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Test Flow Chart



These sample were dissolved totally by pre-conditioning method according to above flow chart (Cr^{6+} test method excluded)

2.For PBBs, PBDEs, DBP, BBP, DEHP, DIBP



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The photo of the sample





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AGC authenticate the photo only on original report *** End of Report ***

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Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China