Testing Report

Job No.:/ | Report No.: HQ163011XXX-EN | Date: Jan. 28, 2016

Applicant: XX

XX

Contact(s): XX

Overall Rating:	
Data	☐
Satisfactory	☑
Unsatisfactory	☐
Others, See Detail Enclosed	☐

Sample Information

Client:	/
Supplier:	XX
Factory:	XX
Item No.:	XX
Description:	ACM
PO No.:	/
Sample Submitted:	1 pc by factory in good condition
Country of Origin:	/
Destination:	U.S.A. & Europe & Japan
Received Date:	Jan. 25, 2016
Testing Period:	Jan. 25, 2016, to Jan. 27, 2016
Testing Standard:	Selected tests as requested by applicants, details refer to following pages.
Service Location:	Hangzhou
Remark:	/

**********To be Continued

Authorized by:
HQTS QA International Services Co., Ltd.

Neil Peng
Supervisor

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The results shown in this Test Report refer only to the sample(s) tested.
The sample description is based on the information provided by applicant.

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Testing Summary of Tested Component on Submitted Sample:

1	RoHS(10 items)--Restriction of The Use of Certain Hazardous Substances in Electrical and Electronic Equipment	Pass

**********To be Continued

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1 RoHS(10 items)--Restriction of The Use of Certain Hazardous Substances in Electrical and Electronic Equipment

Specimen	Restricted Substances	Results of XRF		Results of Chemical Analysis (mg/kg)	Limit (mg/kg)	Conclusion
		Result	Comment			
#1. LEA-ACM	Lead (Pb)	ND	BL	/	1000	Pass
	Cadmium (Cd)	ND	BL	/	100	
	Mercury (Hg)	ND	BL	/	1000	
	Chromium VI (Cr^{6+})*	ND	BL	/	1000	
	Polybrominated Biphenyls (PBBs)**	ND	BL	/	1000	
	Polybrominated Diphenyl Ethers (PBDEs)**			/	1000	
	Bis (2-ethylhexyl)phthalate (DEHP)	/		ND	1000	
	Butyl benzyl phthalate (BBP)	/		ND	1000	
	Dibutyl phthalate (DBP)	/		ND	1000	
	Diisobutyl phthalate(DIBP)	/		114	1000	

**********To be continued

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Remark: ND=Not Detected (<MDL) MDL=Method Detection Limit

*= Total Chromium (Cr) Content result was tested in lab by XRF method, and got result was less then BL, thus the result of Chromium VI (Cr6+) content is less than the required limit in standard.

**=Total Bromine(Br) was tested in lab by XRF method, and got result was less BL, thus the result of Polybrominated Biphenyls (PBBs) content, Polybrominated Diphenyl Ethers (PBDEs) are less than the required limit in standard.

Testing item	Testing method, Equipment	MDL (mg/kg)
Dibutyl phthalate (DBP)	With reference to EN14372-2004 by solvent extraction and determined by Gas Chromatographic-Mass Spectrometric (GC-MS)	100
Benzyl Butyl Phthalate (BBP)	With reference to EN14372-2004 by solvent extraction and determined by Gas Chromatographic-Mass Spectrometric (GC-MS)	100
Bis(2-Ethylhexyl) Phthalate (DEHP)	With reference to EN14372-2004 by solvent extraction and determined by Gas Chromatographic-Mass Spectrometric (GC-MS)	100
Diisobutyl phthalate(DIBP)	With reference to EN14372-2004 by solvent extraction and determined by Gas Chromatographic-Mass Spectrometric (GC-MS)	100

Remark: Screening limits in mg/kg for regulated elements in various matrices:

Element	Polymers		Metals		Composite	
	Comment	ND	Comment	ND	Comment	ND
Cd(mg/kg)	BL ≤ 70 < X <130 ≤ OL	<50	BL ≤ 70< X <130 ≤ OL	<70	70< X < 150≤ OL	<70
Pb(mg/kg)	BL ≤ 700< X <1300≤ OL	<100	BL ≤ 700< X <1300≤ OL	<200	BL ≤ 500< X <1500 ≤ OL	<200
Hg(mg/kg)	BL ≤700 < X <1300 ≤ OL	<100	BL ≤ 700< X <1300 ≤ OL	<200	BL ≤ 500 < X <1 500 ≤ OL	<200
Cr(mg/kg)	BL ≤ 700 < X	<100	BL ≤ 700 < X	<200	BL ≤ 550 < X	<200
Br(mg/kg)	BL ≤ 300< X	<200	Not Applicable		BL ≤ 250< X	<200

A common set of limits for the substances of interest have been assumed for the purposes of this example. The limits are 100 mg/kg for Cd and 1 000 mg/kg for Pb, Hg and Cr. The limit for Br is calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE and their limit of 1 000 mg/kg. The “action levels” for this method have been set for the purpose of this screening procedure with a 30 % margin of safety (50 % for composite materials).

A “BELOW LIMIT” (BL) or “OVER LIMIT” (OL) determination will be set at 30 % (50 % for composite materials) less than or greater than the limit, respectively. The margins of safety have been agreed upon based on the experience of many experts and practitioners in the industry. Further explanation of this approach to estimating uncertainty (translated here as “margin of safety”) can be found in 6.6 c).

The symbol “X” marks the region where further investigation is necessary.

**********End of Report

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