TEST

TEST REPORT

Applicant	:	XXXXXXXXXXXXXXXXXXXXXXXXXXX Co., Ltd.
Applicant Address	:	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

The following sample was submitted by the client as:

Manufacturer	:	XXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Address	:	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Sample Description	:	TSA Approved Luggage Lock
Style/Item No.	:	TSA500
Brand Name	:	N/A
Sample Receiving Date	:	Jun. 18, 2016
Test Period	:	Jun. 18, 2016 to Jun. 23, 2016

Test Requested:

As requested by the applicant, test(s) was/were performed as below:

Test Summary		Conclusion
1	European Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment	PASS

Test Results: Please refer to following page(s).

Tested by: May Li May li	Reviewed by: Boly Peng	Approved by: Ailis Ma Ailis Ma

Declaration:

(1) The report shall not be reproduced partly without the written approval of the laboratory, except in full produced.
(2) All the results shown in the report apply to the tested sample,any erasion on the report is invalid
(3) All tested sample will be kept for one month,if there is any doubt about the test result, please inform within this period

TEST REPORT

RoHS hazardous substances test

Test method:

IEC 62321-3-1:2013, XRF screening

IEC 62321-4-2013 for Hg, analyzed by ICP-OES

IEC 62321-5-2013 for Cd and Pb, analyzed by ICP-OES

IEC 62321:2008 Annex C and/or IEC 62321-7-1:2015 for Cr^{6+}, analyzed by UV-VIS

IEC 62321-6-2015 for PBBs and PBDEs, analyzed by GC-MS

1. XRF results:

No.	Name of the sample	Part name	Sample Description	Results				
				Pb	Cd	Hg	Cr	Br
1-1-1	TSA Approved Luggage Lock	Shell	White plastic	BL	BL	BL	BL	BL
1-1-2			Black plastic	BL	BL	BL	BL	BL
1-2-1		Screw	Silvery metal	BL	BL	BL	BL	NA
1-3-1		Metallic cable	Transparent plastic	BL	BL	BL	BL	BL
1-3-2			Silvery metal cable	BL	BL	BL	BL	NA
1-3-3			Silvery metal tip	BL	BL	BL	**IN**	NA
1-3-4			Black metal cable	BL	BL	BL	BL	NA
1-4-1		Decoration	White plastic with printing	BL	BL	BL	BL	BL
1-5-1		Coded lock	Silvery metal	BL	BL	BL	**IN**	NA
1-6-1		Key cylinder	Silvery metal	BL	BL	BL	BL	NA
1-6-2			Metal spring	BL	BL	BL	**IN**	NA
1-7-1		Metal (inside)	Silvery metal	BL	BL	BL	BL	NA
1-7-2			Silvery metal	BL	BL	BL	BL	NA
1-7-3			Silvery metal	BL	BL	BL	BL	NA
1-7-4			Silvery metal	BL	BL	BL	BL	NA

2. Chemical confirm results:

Test Item(s)	Result (mg/kg)					Limit (mg/kg)
	1-3-3	1-5-1	1-6-2	---	---	
Hexavalent Chroumium (Cr^{6+})	Negative	Negative	Negative	Negative	Negative	--
Comment	PASS	PASS	PASS	PASS	PASS	--

Remark:

1. BL = below limit
2. OL = over limit
3. IN = inconclusive, chemical confirm test is recommended
4. NA = not applicable

5. mg/kg = milligram per kilogram = ppm
6. Method Detection Limit (MDL) :10mg/kg for Pb, Cd, Hg and Cr^{6+}; 10mg/kg for PBB and PBDE
7. ND = not detected
8. Negative = The Cr^{6+} concentration is below the limit of quantification. The coating is considered a non-Cr^{6+} based coating.
9. Positive = The Cr^{6+} concentration is above the limit of quantification and the statistical margin of error, The sample coating is considered to contain Cr^{6+}.

Note:

1. When perform screening tests, it is the result on total Br while test item on restricted substances is PBBs/PBDEs, it is the result on total Cr while test item on restricted substances is Cr^{6+}.
2. Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr^{6+}) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration falls into the inconclusive area according to IEC 62321-3-1:2013 (unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	BL≤(70-3σ)<X<(130+3σ) ≤OL	BL≤(70-3σ)<X<(130+3σ) ≤OL	LOD<X<(150+3σ) ≤OL
Pb	BL≤(700-3σ) <X<(1300+3σ) ≤OL	BL≤(700-3σ)<X<(1300+3σ) ≤OL	BL≤(500-3σ) <X<(1500+3σ) ≤OL
Hg	BL≤(700-3σ) <X<(1300+3σ) ≤OL	BL≤(700-3σ)<X<(1300+3σ) ≤OL	BL≤(500-3σ) <X<(1500+3σ) ≤OL
Br	BL≤(300-3σ)<X	---	BL≤(250-3σ)<X
Cr	BL≤(700-3σ)<X	BL≤(700-3σ)<X	BL≤(500-3σ)<X

3. The XRF screening test for RoHS elements. The reading may be different to the actual content in the sample be of non-uniformity composition.
4. As per applicant's request, only test specified materials.

Tested sample photo:

--- End of Report ---