

**Report No.:** 0154221036a 001

Page 1 of 5

**Client:** TAIZHOU HUALI PLASTIC CO.,LTD.  
Zhangdian Industrial Zone, Jiangyan City, Jiangsu Prov., P.R.China

**Identification/  
Model No(s):** Rigid LVT Flooring

**Sample Receiving date:** 2016-12-23

**Testing Period:** 2017-01-05 - 2017-01-09

**Test Specification:**

**Test result:**

Customer's requirement:

- |  |      |
|--|------|
| 1. According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU | PASS |
|--|------|

For and on behalf of  
TÜV Rheinland (Shanghai) Co., Ltd.



2017-02-06                      Joanna Qiao / Assistant Manager

*Date*    *Name/Position*

*Test result is drawn according to the kind and extent of tests performed.  
This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

**Test Report No.: 0154221036a 001**

Page 2 of 5

**Material List:**

Item: Rigid LVT Flooring

Material No.	Material	Color	Location
M001	Plastic	grey+ brown	refer to photo

**Test Report No.: 0154221036a 001**

Page 3 of 5

**1.Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)**

Test Method: Total Cadmium, Lead, Mercury, Chromium  
- Ref. to IEC 62321-4:2013 and IEC 62321-5:2013

Chromium (VI)  
- For Metal material - Ref. to IEC 62321-7-1:2015  
- For Plastic or Electronic material - Ref. to IEC 62321:2008 Annex C  
- For Leather material - Ref. to ISO 17075:2007

PBBs, PBDEs - Ref. to IEC 62321-6:2015

**Material List:**

Material No.	Material	Color	Location	Test plan
				A = Test HM only B = Test FR only C = Test HM + FR
M001	Plastic	grey+ brown	refer to photo	C

**Abbreviation:** HM (Heavy metal) = Cd, Pb, Hg, Cr (VI)  
FR (Flame Retardant) = PBBs, PBDEs

Remark :

- Component(s)/ materials(s) with an area of less than 2mm x2 mm will not be selected for testing according to RoHS Directive 2011/65/EU due to technical reason.
- For the test sample does not have detail materials information provided by client, visually identical materials (e.g. wire insulation, solder points, etc.) will be considered as the same material.
- Solder points on a printing circuit board will be examined several times based on optical anomalies or discoloration of the solder point(s) unless the solder point(s) is obviously generated automatically during production.
- All other materials will be sampled and tested at one test point representatively.

**Test Result:**

	Cd	Cr(VI)	Pb	Hg	PBBs (*)	PBDEs (*)
<b>Maximum Permissible Limit (mg/kg)</b>	100	1000	1000	1000	1000	1000

Material No.	(mg/kg)					
	Cd	Cr <sup>^</sup>	Pb	Hg	PBBs (*)	PBDEs (*)
	RL (mg/kg)					
	10	10	10	10	5	5
M001	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

**Test Report No.: 0154221036a 001**

Page 4 of 5

**Abbreviation:** Pb = Lead  
 Cd = Cadmium  
 Hg = Mercury  
 Cr = Chromium  
 Cr (VI) = Chromium (VI)  
 PBBs = Total Polybrominated Biphenyls  
 PBDEs = Total Polybrominated Diphenyl Ethers  
 n.d. = Not Detected (<RL)  
 RL = Reporting Limit  
 n.a. = Not Applicable  
 ^ = The total Chromium have been determined  
 mg/kg = milligram per kilogram

**Remark:**

\* The reporting limit for each individual PBBs and individual PBDEs are :

Reporting Limit (mg/kg)		
<b>PBBs</b>	Bromobiphenyl	5
	Dibromobiphenyl	5
	Tribromobiphenyl	5
	Tetrabromobiphenyl	5
	Pentabromobiphenyl	5
	Hexabromobiphenyl	5
	Heptabromobiphenly	5
	Octabromobiphenyl	5
	Nonabromobiphenyl	5
	Decabromobiphenyl	5
<b>PBDEs</b>	Bromodiphenylether	5
	Dibromodiphenyl ether	5
	Tribromodiphenyl ether	5
	Tetrabromodiphenyl ether	5
	Pentabromodiphenyl ether	5
	Hexabromodiphenyl ether	5
	Heptabromodiphenyl ether	5
	Octabromodiphenyl ether	5
	Nonabromodiphenyl ether	5
	Decabromodiphenyl ether	5

**Test Report No.: 0154221036a 001**

Page 5 of 5

Sample Photo



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