TEST REPORT

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Test Report No. : 6089941A.50QS
Project no. : 6089941

Client	:	Pandoo GmbH Blarerstraße 56, Konstanz, Germany
Date sample received	:	2020.10.23 / 2020.11.18
Product	:	Stainless Steel Lunchbox
Model	:	800 ml + 1200 ml
Trade name	:	Lunchbox Edelstahl 800 ml / Lunchbox Edelstahl 1200 ml
Manufacturer	:	
Product description	:	Please refer to next page(s).
Test Requested	:	As the client required, to determine the Formaldehyde contents of the submitted sample(s). As the client required, to determine the AZO compounds content of the sample(s). As the client required, to determine the Dimethyl Fumarate (DMF) content of the sample(s). As the client required, to determine the TEPA, TRIS content of the sample(s). As the client required, to determine the PBB content of the submitted sample(s). With reference to 94/62/EC and amendment 2004/12/EC, 2005/20/EC, 2013/2/EU directive on packaging and packaging waste, to determine the sum of Total Lead, Cadmium, Mercury and Hexavalent Chromium content in the submitted packaging sample.
Test Method	:	Please refer to next page(s).
Result	:	Please refer to next page(s).
Conclusion	:	Based on the analysis on the submitted samples, the test results **do comply with** the Formaldehyde contents stated in REACH Annex XVII (entry 72). Based on the analysis on the submitted samples, the test results **do comply with** the AZO requirement stated in REACH Annex XVII (entry 43). Based on the analysis on the submitted samples, the test results **do comply with** the Dimethyl Fumarate (DMF) requirement stated in REACH Annex XVII (entry 61). Based on the analysis on the submitted samples, the test results **do comply with** the TEPA, TRIS requirement stated in REACH Annex XVII (entry 4 & 7).

Based on the analysis on the submitted samples, the test results **do comply with** the PBB requirement stated in REACH Annex XVII (entry 8).
The sum of Total Lead, Cadmium, Mercury and Hexavalent Chromium content in the submitted packaging sample **do comply with** the Limit stated in European Council Directive 94/62/EC and amendment directive (packaging waste) for toxic elements test.

Testing Period : 2020.10.23—2020.11.02
2020.11.18—2020.11.24

Signed for and on behalf of
DEKRA Testing and Certification (Shanghai) Ltd

Wang Menglu （王梦璐）
Project Manager

Li yiming（李一鸣）
Test Engineer

TEST RESULTS

1: Formaldehyde

Test Method: With reference to ISO 14184-1:2011,analysis was performed by UV-Vis.

TEST ITEM	UNIT	MDL	LIMIT	TEST RESULT 1+2
Formaldehyde	mg/kg	10	75	N.D.

1) MDL = Method Detection Limit.
2) N.D. = Not detected, less than MDL.

2: PBB content

Test Method: With reference to IEC 62321-6: 2015,analysis was performed by GC-MS.

TEST ITEM	UNIT	MDL	LIMIT	TEST RESULT 1+2
Polybrominated biphenyles (PBB)	mg/kg	100	absent	absent

1) MDL = Method Detection Limit.
2) N.D. = Not detected, less than MDL.

3: AZO

Test Method: With reference to EN 14362-1:2017, analysis was performed by GC-MS.

TEST ITEM	UNIT	MDL	LIMIT	TEST RESULT 1+2
4-aminobiphenyl	mg/kg	5	30	N.D.
benzidine	mg/kg	5	30	N.D.
4-chloro-o-toluidine	mg/kg	5	30	N.D.
2-naphthylamine	mg/kg	5	30	N.D.
o-aminoazotoluene	mg/kg	5	30	N.D.
5-nitro-o-toluidine	mg/kg	5	30	N.D.
4-chloroaniline	mg/kg	5	30	N.D.
2,4-diaminoanisole	mg/kg	5	30	N.D.
4,4'-diaminodiphenylmethane	mg/kg	5	30	N.D.
3,3'-dichlorobenzidine	mg/kg	5	30	N.D.
3,3'-dimethoxybenzidine	mg/kg	5	30	N.D.
3,3'-dimethylbenzidine	mg/kg	5	30	N.D.
4,4'-methylenedi-o-toluidine	mg/kg	5	30	N.D.
p-cresidine	mg/kg	5	30	N.D.
2,2'-dichloro-4.4'-methylene-dianiline	mg/kg	5	30	N.D.
4,4'-oxydianiline	mg/kg	5	30	N.D.
4,4'-thiodianiline	mg/kg	5	30	N.D.
o-toluidine	mg/kg	5	30	N.D.
2,4-toluylendiamine	mg/kg	5	30	N.D.
2,4,5-trimethylaniline	mg/kg	5	30	N.D.
o-anisidine	mg/kg	5	30	N.D.
4-aminoazobenzene	mg/kg	5	30	N.D.

1) MDL = Method Detection Limit.

2) N.D. = Not detected, less than MDL.

4: DMF(u)

Test Method: With reference to ISO16186:2012,analysis was performed by GC-MS

TEST ITEM	UNIT	MDL	LIMIT	TEST RESULT 1+2
Dimethyl Fumarate content	mg/kg	0.05	0.1	N.D.

1) MDL = Method Detection Limit.
2) N.D. = Not detected, less than MDL.

♠ 5: TEPA, TRIS Contents

Test Method: With reference to EPA3550C-2007,analysis was performed by LC-MS.

TEST ITEM	UNIT	MDL	TEST RESULT 1+2
Tris(aziridinyl) phosphinoxide (TEPA)	mg/kg	50	N.D.
Tris(2,3-dibromopropylether)phosphate (TRIS)	mg/kg	50	N.D.

1) MDL = Method Detection Limit.
2) N.D. = Not detected, less than MDL.
3) ♠ = The sample was analysed in accredited partner laboratory.

6: Pb, Hg, Cd, Cr(VI)

Test Method: Sample digestion. Analysis of Cadmium, Lead, Mercury were performed by ICP-OES. Analysis of Hexavalent Chromium (Cr (VI)) was performed by UV-Vis

TEST ITEM	UNIT	MDL	LIMIT***	TEST RESULT 3
Lead (Pb)	mg/kg	5	---	N.D.
Mercury(Hg)	mg/kg	5	---	N.D.
Cadmium(Cd)	mg/kg	5	---	N.D.
Chromium VI(Cr(VI))	mg/kg	5	---	N.D.
Total value	mg/kg	---	≤100	N.D.

*** = The Limited value is based on 94/62/EC-Article 11.

1) MDL = Method Detection Limit.

2) N.D. = Not detected, less than MDL.

3) "---" = Not Regulated.

Sample No.	Description	
1	beige fabric	
2	beige rope	
3	brown paperboard	

---End of Report---

Annex

Information in annex are given by client, the authenticity is guaranteed by client

The same material sample:

1200 ml