

TEST REPORT

Report No. AL24060690801EN

Approved date: Jul. 30, 2024

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Applicant XD Connects B.V.
Address Lange Kleiweg 6-28, 2288 GK Rijswijk The Netherlands



The following submitted sample(s) was/were identified by/on behalf of the applicant as

Sample Name GRS recycled PP lunch box with spork
Item No. P269.05

Summary

Date Received Jun. 25, 2024, Jul. 18, 2024
Test Period Jun. 25, 2024 to Jul. 30, 2024
Test Request As specified by applicant, please refer to the following page.

For more information about the test, please refer to the following pages.

Compiled By Lv luo luo

Checked By Jiang Hong

Approved By Jiang He



Signed on behalf of
Shanghai Lelang Testing Technology Co., Ltd

Room 101-103 of 1st Floor and 2nd-3rd Floor, Building 4, No.158, Jinfeng Road, Pudong District, Shanghai, China

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Test Request	As specified by applicant, the following tests were conducted:	Conclusion
1.	German food articles of Daily use and feed code September 1 2005(LFGB), 30&31 with amendments and BfR Recommendations and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004	
	--Sensorial examination of whole product	PASS
	--Overall migration of plastic material	PASS
	--Specific migration of heavy metal (19 elements) of plastic material	PASS
	-- Specific migration of Primary Aromatic Amine	PASS
	--Volatile organic matter of silicon material	PASS
	--Peroxide value of silicon material	PASS
2.	Council of Europe Resolution ResAP (2004) 5 and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004	
	-- Overall migration	PASS
3.	Applicant's requirement	
	--Bisphenol A (BPA) content	PASS

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Sample Photo(s)

Lelangtek authenticated the photo on original report only

Test sample/component description

- 1 Black plastic lunch box lid
- 2 Grey plastic lunch box
- 3 White silicone ring
- 4 Black silicone mat

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Summary of test results:

- 1. German food articles of Daily use and feed code September 1 2005(LFGB), 30&31 with amendments and BfR Recommendations and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004**

1.1 Sensorial examination

Refer to: German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments

Test method:

It is examined to the extent of food simulant being used, which comes into contact with the product, undergoes detectable changes in taste and smell.

For this purpose,the food simulant was stored in the product under the below mentioned time and temperature.Afterwords, the food simulant was examined by an appropriate number of tasters with regard to any divergence in smell and taste. Another test sample, which was used as a reference,was treated by the same way except that it had no contact with the product to be tested. Before testing, the product had been cleaned according to the product’s instruction manual or in the absence of such manual, by normal household cleaning.

The test is carried out on the basis of DIN 10955:2004 by paired comparison tests.

Test condition: 70°C , 2h

Test Item	Result
	Whole product
Sensorial analysis (odour)	0
Sensorial analysis (taste)	0

Note: 0= no discernible deviation

1= barely discernible deviation

2= weak deviation

3= clear deviation

4= strong deviation

Limit: 3(failed)

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1.2 Overall Migration

Refer to: Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food and its amendment (EU) 2020/1245

Test method: With reference to EN 1186-1:2002, EN 1186-3:2022

Food simulants	Result (mg/dm ²)			DL (mg/dm ²)	Limit (mg/dm ²)
	1 st migration	2 nd migration	3 rd migration		
	1 [#]				
3% (w/v) acetic acid, in aqueous solution (70°C, 2h)	<3.0	<3.0	<3.0	3.0	≤10
50% (v/v) ethanol, in aqueous solution (70°C, 2h)	<3.0	<3.0	<3.0	3.0	≤10

Food simulants	Result (mg/dm ²)			DL (mg/dm ²)	Limit (mg/dm ²)
	1 st migration	2 nd migration	3 rd migration		
	2				
3% (w/v) acetic acid, in aqueous solution (70°C, 2h)	<3.0	<3.0	<3.0	3.0	≤10
50% (v/v) ethanol, in aqueous solution (70°C, 2h)	<3.0	<3.0	<3.0	3.0	≤10

Note:

- (1) mg/dm²=milligram per square decimetre.
- (2) DL = Detection limit.
- (3) For infant or young children (<3 years), the overall migration limit shall always be 60 mg/kg.
- (4) Food simulants and conditions were specified by applicant.
- (5) The material or article is intended to come into repeated contact with foods, the migration test(s) shall be carried out three times. The results of subsequent migrations must not exceed the previous ones and the determination of compliance is based on the third migration result.

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1.3 Specific migration of heavy metal (19 elements)

Refer to: Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food and its amendment (EU) 2020/1245

Test Method: With reference to EN 13130-1:2004 for selection of test method; with reference to ISO 11885:2007 for ICP-MS analysis.

Food simulant and condition: 3% (w/v) acetic acid, in aqueous solution, 70°C, 2h

No.	Elements	Result(mg/kg)			DL (mg/kg)	Limit (mg/kg)
		1 st migration	2 nd migration	3 rd migration		
		1 [#]				
(1)	Barium(Ba)	ND	ND	ND	0.1	≤1
(2)	Copper(Cu)	ND	ND	ND	1	≤5
(3)	Lithium(Li)	ND	ND	ND	0.1	≤0.6
(4)	Zinc(Zn)	ND	ND	ND	1	≤5
(5)	Nickel(Ni)	ND	ND	ND	0.01	≤0.02
(6)	Cobalt(Co)	ND	ND	ND	0.03	≤0.05
(7)	Iron(Fe)	ND	ND	ND	5	≤48
(8)	Manganese(Mn)	ND	ND	ND	0.1	≤0.6
(9)	Aluminum(Al)	ND	ND	ND	0.1	≤1.0
(10)	Lead(Pb)	ND	ND	ND	0.01	ND
(11)	Cadmium(Cd)	ND	ND	ND	0.002	ND
(12)	Arsenic(As)	ND	ND	ND	0.01	ND
(13)	Mercury(Hg)	ND	ND	ND	0.01	ND
(14)	Chromium(Cr)	ND	ND	ND	0.01	ND
(15)	Antimony(Sb)	ND	ND	ND	0.01	≤0.04
(16)	Europium(Eu)	ND	ND	ND	0.01	Sum≤0.05
(17)	Gadolinium(Gd)	ND	ND	ND	0.01	
(18)	Lanthanum(La)	ND	ND	ND	0.01	
(19)	Terbium(Tb)	ND	ND	ND	0.01	

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No.	Elements	Result(mg/kg)			DL (mg/kg)	Limit (mg/kg)
		1 st migration	2 nd migration	3 rd migration		
		2				
(1)	Barium(Ba)	ND	ND	ND	0.1	≤1
(2)	Copper(Cu)	ND	ND	ND	1	≤5
(3)	Lithium(Li)	ND	ND	ND	0.1	≤0.6
(4)	Zinc(Zn)	ND	ND	ND	1	≤5
(5)	Nickel(Ni)	ND	ND	ND	0.01	≤0.02
(6)	Cobalt(Co)	ND	ND	ND	0.03	≤0.05
(7)	Iron(Fe)	ND	ND	ND	5	≤48
(8)	Manganese(Mn)	ND	ND	ND	0.1	≤0.6
(9)	Aluminum(Al)	ND	ND	ND	0.1	≤1.0
(10)	Lead(Pb)	ND	ND	ND	0.01	ND
(11)	Cadmium(Cd)	ND	ND	ND	0.002	ND
(12)	Arsenic(As)	ND	ND	ND	0.01	ND
(13)	Mercury(Hg)	ND	ND	ND	0.01	ND
(14)	Chromium(Cr)	ND	ND	ND	0.01	ND
(15)	Antimony(Sb)	ND	ND	ND	0.01	≤0.04
(16)	Europium(Eu)	ND	ND	ND	0.01	Sum≤0.05
(17)	Gadolinium(Gd)	ND	ND	ND	0.01	
(18)	Lanthanum(La)	ND	ND	ND	0.01	
(19)	Terbium(Tb)	ND	ND	ND	0.01	

Note:

- (1) mg/kg = ppm=parts per million
- (2) DL = Detection limit
- (3) ND=Not detected, the test result(s) is/are below the detection limit.
- (4) Food simulant and condition were specified by applicant.
- (5) The material or article is intended to come into repeated contactwith foods, the migration test(s) shall be carried outthree times.The results of subsequentmigrations must not exceed the previous ones and the determination of compliance is based on the third migration result.

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1.4 Specific migration of Primary aromatic amine

Refer to: Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food and its amendment (EU) 2020/1245

Test Method: With reference to EN 13130-1:2004 for sample preparation, analysis was performed by LC-MS/MS analysis.

Food simulant and condition: 3% (w/v) acetic acid, in aqueous solution, 70°C, 2h

Test Item	Result (mg/kg)			DL (mg/kg)	Limit (mg/kg)
	1 st migration	2 nd migration	3 rd migration		
	1 [#]				
4-aminobiphenyl/ 4-biphenylamine	ND	ND	ND	0.002	0.002
o-anisidine/2-methoxyaniline	ND	ND	ND	0.002	0.002
Benzidine	ND	ND	ND	0.002	0.002
4-Chloro-aniline/ p-chloroaniline	ND	ND	ND	0.002	0.002
4-Chloro-o-toluidine	ND	ND	ND	0.002	0.002
4,4'-Diaminodiphenylet her/ 4,4'-oxydianiline	ND	ND	ND	0.002	0.002
4,4'-Methylenedianiline/ 4,4'- diamino-diphenylmeth ane	ND	ND	ND	0.002	0.002
4,4-Methylenedi- o-toluidine/ 3,3'- dimethyl-4,4'-dia minodiphenylmethane	ND	ND	ND	0.002	0.002
2-Methoxy-5-methylani line/ p-cresidine	ND	ND	ND	0.002	0.002
4-Methoxy-m-phenylen ediamine/2,4-diaminoaniso	ND	ND	ND	0.002	0.002
o-Toluidine/ 2-aminotoluene	ND	ND	ND	0.002	0.002
2,4-Toluenediamine	ND	ND	ND	0.002	0.002
3,3-Dimethylbenzidine	ND	ND	ND	0.002	0.002
2,4,5-Trimethylaniline	ND	ND	ND	0.002	0.002
m-Phenylenediamine/ 1,3-phenylenediamine	ND	ND	ND	0.002	0.002

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Test Item	Result (mg/kg)			DL (mg/kg)	Limit (mg/kg)
	1 st migration	2 nd migration	3 rd migration		
	1 [#]				
2-naphthylamine	ND	ND	ND	0.002	0.002
o-aminoazotoluene/ 4-amino- 2',3-dimethylazobenzene/ 4-o-tolylazo-o-toluidine	ND	ND	ND	0.002	0.002
5-nitro-o-toluidine	ND	ND	ND	0.002	0.002
3,3'-dichlorobenzidine	ND	ND	ND	0.002	0.002
3,3'-dimethoxybenzidine/ o-dianisidine	ND	ND	ND	0.002	0.002
4,4'-methylene-bis-(2-chloro-aniline) /2,2'-dichloro-4,4'-methylene-dianiline	ND	ND	ND	0.002	0.002
4,4'-thiodianiline	ND	ND	ND	0.002	0.002
4-amino azobenzene	ND	ND	ND	0.002	0.002
Sum of other PAA migrations not listed in REACH	ND	ND	ND	0.01	0.01

Test Item	Result (mg/kg)			DL (mg/kg)	Limit (mg/kg)
	1 st migration	2 nd migration	3 rd migration		
	2				
4-aminobiphenyl/ 4-biphenylamine	ND	ND	ND	0.002	0.002
o-anisidine/2-methoxyaniline	ND	ND	ND	0.002	0.002
Benzidine	ND	ND	ND	0.002	0.002
4-Chloro-aniline/ p-chloroaniline	ND	ND	ND	0.002	0.002
4-Chloro-o-toluidine	ND	ND	ND	0.002	0.002
4,4'-Diaminodiphenylether/ 4,4'-oxydianiline	ND	ND	ND	0.002	0.002
4,4'-Methylenedianiline/ 4,4'- diamino-diphenylmethane	ND	ND	ND	0.002	0.002

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Test Item	Result (mg/kg)			DL (mg/kg)	Limit (mg/kg)
	1 st migration	2 nd migration	3 rd migration		
	2				
4,4-Methylenedi- o-toluidine/ 3,3'-dimethyl-4,4'-diaminodiphenylmethane	ND	ND	ND	0.002	0.002
2-Methoxy-5-methylani line/ p-cresidine	ND	ND	ND	0.002	0.002
4-Methoxy-m-phenylen ediamine/2,4-diaminoaniso le	ND	ND	ND	0.002	0.002
o-Toluidine/ 2-aminotoluene	ND	ND	ND	0.002	0.002
2,4-Toluenediamine	ND	ND	ND	0.002	0.002
3,3-Dimethylbenzidine	ND	ND	ND	0.002	0.002
2,4,5-Trimethylaniline	ND	ND	ND	0.002	0.002
m-Phenylenediamine/ 1,3-phenylenediamine	ND	ND	ND	0.002	0.002
2-naphthylamine	ND	ND	ND	0.002	0.002
o-aminoazotoluene/ 4-amino- 2',3'-dimethylazobenzene/ 4-o-tolylazo- o-toluidine	ND	ND	ND	0.002	0.002
5-nitro-o-toluidine	ND	ND	ND	0.002	0.002
3,3'-dichlorobenzidine	ND	ND	ND	0.002	0.002
3,3'-dimethoxybe nzidine/ o- dianisidine	ND	ND	ND	0.002	0.002
4,4'-methylene-bis -(2-chloro- aniline) /2,2'-dichloro-4,4'- methylene-dianiline	ND	ND	ND	0.002	0.002
4,4'-thiodianiline	ND	ND	ND	0.002	0.002
4-amino azobenzene	ND	ND	ND	0.002	0.002
Sum of other PAA migrations not listed in REACH	ND	ND	ND	0.01	0.01

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Note:

- (1) mg/kg = ppm=parts per million
- (2) DL = Detection limit
- (3) ND =Not detected, the test results are below the detection limit.
- (4) Food simulants and condition were specified by applicant.
- (5) The material or article is intended to come into repeated contact with foods, the migration test(s) shall be carried out three times.The results of subsequent migrations must not exceed the previous ones and the determination of compliance is based on the third migration result.

1.5 Volatile organic matter

Refer to: BfR Recommendation XV

Test method: With reference to 61st Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 46 (2003) 362.

Test condition: 200 °C, 4h

Test Item	Result(%)		Limit(%)*
	3	4	
Volatile organic matter	0.19	0.22	0.5

Note:

- (1) %= percentage of weight by weight
- (2) *=Limit : German BfR Recommendations on Food Contact Materials, Part XV, silicone

1.6 Peroxide value

Refer to: BfR Recommendation XV

Test method: With reference to 58th Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 40 (1997) 412.

Test Item	Result		Limit
	3	4	
Peroxide value	Absent	Absent	Absent

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2. Council of Europe Resolution ResAP (2004) 5 and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004--

Overall Migration

Refer to: Council of Europe Resolution ResAP (2004) 5

Test method: With reference to EN 1186-1:2002, EN 1186-3:2022

Food simulants	Result (mg/dm ²)		DL (mg/dm ²)	Limit (mg/dm ²)
	3	4		
3% (w/v) acetic acid, in aqueous solution (70°C, 2h)	<3.0	<3.0	3.0	≤10
50% (v/v) ethanol, in aqueous solution (70°C, 2h)	<3.0	<3.0	3.0	≤10

Note:

- (6) mg/dm²=milligram per square decimetre.
- (7) DL = Detection limit
- (8) For infant or young children (<3 years), the overall migration limit shall always be 60 mg/kg.
- (9) The migration results are based on the third migration.
- (10) Food simulants and conditions were specified by applicant.

3. Bisphenol A (BPA) content

Test method: With reference to EPA 3550C:2007&EPA 8321B:2007

Instrument: LC-MS-MS

Component No.	Test Item & Result (Unit:mg/kg)
	Bisphenol A (BPA)
1 [#]	ND
2	ND
3	ND
4	ND
Detection limit	0.1
Applicant's Limit	Not Detected

Note:

- (1) mg/kg = ppm=parts per million
- (2) ND = Not detected, the test result(s) is/are below the detection limit.
- (3) “#” indicates this test component data was the first retested sample result, our lab received the first retested sample on Jul. 18, 2024.

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

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DECLARATION

- (1) *The information of applicant and sample information as listed on the first page of this test report were all provided by the client. The client shall be responsible for the representativeness of sample and authenticity of materials, for which our company shall bear no responsibilities.*
- (2) *The test data of this test report is only responsible for the tested sample. In principle, the report issued by our company will not judge the test results, unless the customer has special requirements, our company will not bear any economic and legal responsibilities for the direct or indirect impact.*
- (3) *The client shall assume the risks in production, storage, drawing and transferring of sample, and our company shall not assume the risk of incorrect inspection result incurred by these activities.*
- (4) *The judgment method of determining the conformity in this test report is according to the measured value without considering the risk caused by uncertainty, unless otherwise clearly stipulated in special agreement, standard or specification. The client shall assume the risk caused by this judgment method, and our company shall not bear related responsibilities.*
- (5) *If there is any dissent to the test data by the client, please submit the written application for reexamination to the company within fifteen working days from the issue date of the report.. To the test items which cannot be retested, the client may have to give up the dissent right.*
- (6) *The client to return the sample shall notify our company in writing in dealing with entrusting of inspection, and shall retrieve the remaining inspection sample within 30 days after receiving the test report, unless otherwise agreed upon. If the client fails to notify us of returning the sample in writing, our company is entitled to dispose of the remaining inspection sample as per our company's sample disposition stipulations 1 month after issuing the inspection report. If the sample's quality does not allow reserving, our company may immediately dispose of it after issuing the inspection report.*
- (7) *Lelangtek guarantees the objectivity and fairness of test, and carries out confidentiality obligations on business secrets such as business information, technical documents and so on.*
- (8) *This test report is invalid without the signature of the approver, special inspection stamp and paging seal of our organization, and Data erasure invalid.*
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- (11) *The Company shall not be labile for any delayed, partial or total nonperformance of the services arsing directly or indirectly from any event outside the Company's control, including but not limited to failure by the Client to comply with any of its obligations.*
- (12) *In the event of any claim of loss, damage or other reason, the compensation of the Company shall not exceed three times of the subject service charge of the subject sample in any case for loss, damage or claim of any kind.*
- (13) *In case of any discrepancy between the English and Chinese versions of the Terms of Service, the Chinese version shall prevail.*
- (14) *Unless otherwise specified, the compliance determination of this report use the Binary Statement for Simple Acceptance Rule (w=0) in reference to ILAC-G8:09/2019 and CNAS-GL015:2022.*