

Test Report

No. TAOHG2400490901

Date: 18 Mar 2024

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Client Name : QINGDAO GREAT NEW MATERIAL TECHNOLOGY CO., LTD

Client Address : 1000M SOUTH TO XIGUOZHUANG COMMUNITY RESIDENTS COMMITTEE, CHENGYANG STREET, CHENGYANG DISTRICT, QINGDAO, SHANDONG, CHINA

Sample Name : PET FRUIT PACKAGE

Item No. : GLT-250C1

Reference No. : VRT-1LB-CLAM,VRT-SMTH-1.5LB-TS,LMB-LCD2,GLT-LUT500,50QT,GLT-40Q T,GLT-FPCK500,G232,GLT-125B1,GLT-HB1(PGS-02),GLT-1/2DP,GLT-FPCK250

The above sample(s) and information were provided by the client.

SGS Job No. : QDHL2403002194CW - QD

Date of Sample Received : 01 Mar 2024

Testing Period : 01 Mar 2024 - 18 Mar 2024

Test Requested : Selected test(s) as requested by the client.

Test Method(s) : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).



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Result Summary :

Test Requested	Conclusion
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation and BfR recommendation-Overall migration	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Sensorial examination odour and taste test	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation -Specific migration of terephthalic acid	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation and BfR recommendation-Specific migration of heavy metal	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation and BfR recommendation - Specific migration of ethylene glycols	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation -Antimony	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation-Polycyclic Aromatic Hydrocarbons (PAHs)	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Justin

Zhang Bo, Justin
Approved Signatory



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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TAO24-004909.001	Transparent plastic container	PET

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation and BfR recommendation-Overall migration

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 001 Overall migration	Conclusion
10% Ethanol (V/V) (First migration)	240.0hr(s)	20°C	10mg/dm ²	<3.0mg/dm ²	PASS
Area/Volume			-	10.0dm ² /kg	

Notes :

- (1) Analytical tolerance of evaporable simulants is 2 mg/dm² or 12 mg/kg. Analytical tolerance of olive oil simulant is 3 mg/dm² or 20 mg/kg.
- (2) Test condition & simulant were specified by client.

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Sensorial examination odour and taste test

Test Method : With reference to DIN 10955: 2023.
No. of panelist: 6



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<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Test media	-	Distilled water
Test time (hr)	-	72
Temperature (°C)	-	20
Area/volume(dm ² /kg)	-	10.0
Sensorial examination odour (Point scale)	2.5	0.0
Sensorial examination taste (Point scale)	2.5	0.0
Conclusion		PASS

Notes :

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation -Specific migration of terephthalic acid

Test Method : With reference to EN 13130-1:2004 and EN 13130-2:2004, analysis was performed by LC-DAD

Sample 001

Simulant Used : 10% Ethanol (V/V) aqueous solution
 Test Condition : 20 °C 72.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Specific migration of terephthalic acid	7.5	mg/kg	1.0	ND
Conclusion				PASS

Notes :

- (1) Test condition & simulant were specified by client.
- (2) The test was subcontracted to SGS Shanghai chemical lab.



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German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation and BfR recommendation-Specific migration of heavy metal

Test Method : With reference to EN13130-1:2004, analysis was performed by ICP-OES and ICP-MS.

Sample 001

Simulant Used : 10% Ethanol (V/V)

Test Condition : 20 °C 72.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Arsenic(As)	ND	mg/kg	0.01	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND
Chromium(Cr)	ND	mg/kg	0.01	ND
Mercury(Hg)	ND	mg/kg	0.01	ND
Lead(Pb)	ND	mg/kg	0.01	ND
Aluminium(Al)	1	mg/kg	0.1	ND
Barium (Ba)	1	mg/kg	0.25	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Copper (Cu)	5	mg/kg	0.25	ND
Iron(Fe)	48	mg/kg	5	ND
Lithium (Li)	0.6	mg/kg	0.1	ND
Manganese(Mn)	0.6	mg/kg	0.1	ND
Zinc(Zn)	5	mg/kg	0.5	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND
Europium(Eu)	-	mg/kg	0.025	ND
Gadolinium(Gd)	-	mg/kg	0.025	ND
Lanthanum(La)	-	mg/kg	0.025	ND
Terbium(Tb)	-	mg/kg	0.025	ND
Europium(Eu)+Gadolinium(Gd)+Lanthanum(La)+Terbium(Tb)	0.05	mg/kg	-	ND

Conclusion **PASS**

Notes :

(1) Test condition & simulant were specified by client.



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German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation and BfR recommendation - Specific migration of ethylene glycols

Test Method : With reference to EN 13130-1:2004 and BS EN 13130-7:2004, analysis was performed by GC-FID.

Sample 001

Simulant Used : 10% Ethanol (V/V)
 Test Condition : 20 °C 72.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Specific migration of ethylene glycol	30	mg/kg	20	ND
Conclusion				PASS

Notes :

- (1) Test condition & simulant were specified by client.
- (2) The test was subcontracted to SGS Shanghai chemical lab.

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation -Antimony

Test Method : Acid digestion, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Antimony	350	mg/kg	10	147
Conclusion				PASS

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation-Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.



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Test Item(s)	Limit	Unit	MDL	001
Sum of 18 PAHs	1	mg/kg	-	ND
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	1	mg/kg	-	ND
Naphthalene(NAP)	1	mg/kg	0.1	ND
Acenaphthylene(ANY)	-	mg/kg	0.1	ND
Acenaphthene(ANA)	-	mg/kg	0.1	ND
Fluorene(FLU)	-	mg/kg	0.1	ND
Phenanthrene(PHE)	-	mg/kg	0.1	ND
Anthracene(ANT)	-	mg/kg	0.1	ND
Fluoranthene(FLT)	-	mg/kg	0.1	ND
Pyrene(PYR)	-	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	0.2	mg/kg	0.1	ND
Chrysene(CHR)	0.2	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF) and Benzo(j)fluoranthene(BjF)	0.2	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	0.2	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	0.2	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	0.2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	0.2	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	0.2	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	0.2	mg/kg	0.1	ND

Conclusion

Pass

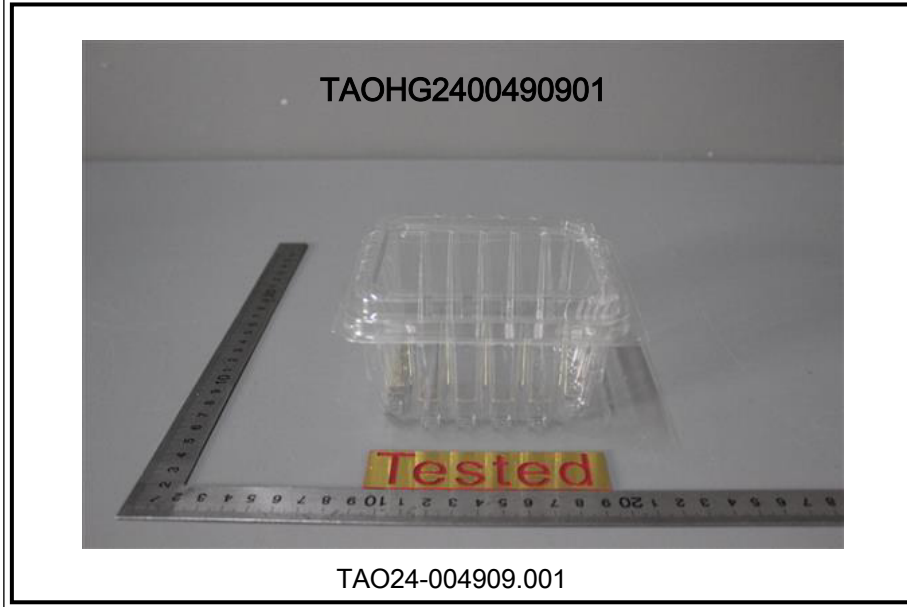
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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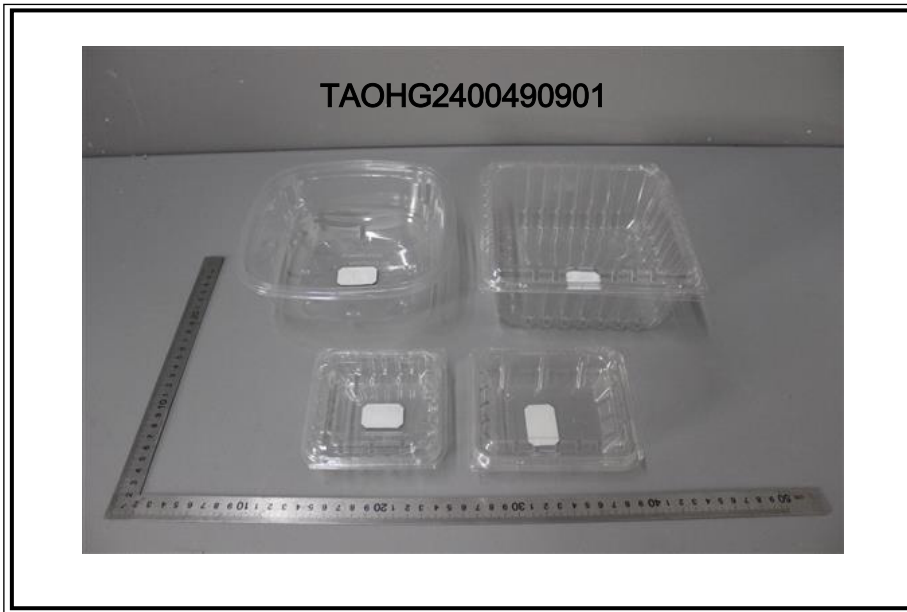
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