

Test Report

No. SHAFD1927635002

Date: 09 Jan 2020

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KINGSTAR TOOLS CO.,LTD

2 Buidling Shishan Industrial Zone, No.89, Songshan Road, New District, Suzhou 215129, China

The following sample(s) was/were submitted and identified on behalf of the clients as : Wooden parts; Stainless Steel Screw; Juice Bag (PET); White Organic Coating Foundation; Red Organic Coating Foundation

SGS Job No. : O-SHAFL201901249717 ASH19-069975 - SH
Manufacturer : KINGSTAR TOOLS CO.,LTD
Client Ref. Information : Model Code: FP6, FP9, FP12, FP14, FP18, FP20, FP30, FP36, FP40, FP48, FP60 ,FP90;
Item Name: Fruit Wine Press
Date of Sample Received : 11 Dec 2019
Testing Period : 11 Dec 2019 - 27 Dec 2019
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : 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, European Commission Regulation (EU) No 10/2011 with amendments 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-Colour release	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 lead and cadmium	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 ethylene glycol	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 polynuclear aromatic hydrocarbons (PAHs)	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Specific migration of formaldehyde	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, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation -Specific migration of acetaldehyde	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 heavy metal	PASS



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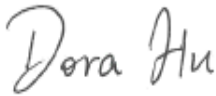
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German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation -Specific migration of antimony	PASS
German Food, 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-Lead(Pb) and cadmium(Cd)	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 and BfR recommendation-Pentachlorophenol (PCP)	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
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution CM/Res(2013)9 and BfR recommendation-Extractable heavy metals	PASS

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



Dora Hu
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA19-276350.001	Natural wood stick	Wood
SN2	SHA19-276350.002	Silvery metal piece	Stainless steel
SN3	SHA19-276350.003	White plastic bag	PET
SN4	SHA19-276350.004	White coating	Organic coating
SN5	SHA19-276350.005	Red coating	Organic coating
SN6	SHA19-276350.006	White coating	Organic coating
SN7	SHA19-276350.007	Red coating	Organic coating

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, European Commission Regulation (EU) No 10/2011 with amendments 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;
 For sample 004:
 EN1186-9:2002 aqueous food simulants by article filling method;
 EN 1186-14:2002 substitute test
 For sample 005:
 EN1186-3:2002 aqueous food simulants by total immersion method;
 EN 1186-14:2002 substitute test

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 004 Overall migration</u>	<u>Conclusion</u>
95% Ethanol	2.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²	PASS
Isooctane	0.5hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²	PASS



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<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 005</u> <u>Overall migration</u>	<u>Conclusion</u>
95% Ethanol	2.0hr(s)	60°C	10mg/dm ²	6.5mg/dm ²	PASS
Isooctane	0.5hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²	PASS

Notes :

- (1) Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg.
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm² or 20mg/kg.
- (3) Test condition & simulant were specified by client.
- (4) The test data is obtained by considering the articles intended for repeated use as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V. Report the 3rd extractive result.

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Colour release

Test Method : With reference to Kunststoffe im Lebensmittelverkehr, Part B II IX.

<u>Test Item(s)</u>	<u>Limit</u>	<u>003</u>	<u>004</u>	<u>005</u>
Colour release in 2% acetic acid (W/W) aqueous solution	★	Negative	Negative	Negative
Conclusion		PASS	PASS	PASS
Colour release in coconut oil	★	Negative	Negative	Negative
Conclusion		PASS	PASS	PASS

Notes :

- (1) ★ = No colour release.
- (2) Negative = No color release observed, Positive = Color release observed.

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 10955:2004
 Test media: Distilled water. For sample001: Cucumber
 No. of panelist: 6

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>	<u>002</u>	<u>004</u>
Test time (hr(s))	-	2	0.5	0.5
Temperature(°C)	-	40	40	40
Sensorial examination odour (Point scale)	2.5	0	0	0
Sensorial examination taste (Point scale)	2.5	0	0	0
Conclusion		PASS	PASS	PASS



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<u>Test Item(s)</u>	<u>Limit</u>	<u>005</u>
Test time (hr(s))	-	0.5
Temperature(°C)	-	40
Sensorial examination odour (Point scale)	2.5	0
Sensorial examination taste (Point scale)	2.5	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 lead and cadmium

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



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Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 40 °C 0.5 hr(s)

Test Item(s)	Limit	Unit	RL	006
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Specific migration of Lead	★	mg/kg	0.01	ND
Specific migration of Cadmium	★	mg/kg	0.01	ND
Conclusion				PASS

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 40 °C 0.5 hr(s)

Test Item(s)	Limit	Unit	RL	007
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Specific migration of Lead	★	mg/kg	0.01	ND
Specific migration of Cadmium	★	mg/kg	0.01	ND
Conclusion				PASS

Notes :

- (1) ★= Absent
- (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, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation -Specific migration of ethylene glycol

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

Sample 003

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 70 °C 0.5 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	6.0
Specific migration of ethylene glycol	30	mg/kg	3	ND
Conclusion				PASS



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Notes :

(1) 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, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation-Specific migration of polynuclear aromatic hydrocarbons (PAHs)

Test Method : With reference to EN 13130-1: 2004, analysis was performed by GC-MS.

Sample 004

Simulant Used : 95% Ethanol Aqueous Solution

Test Condition : 40 °C 0.5 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
Naphthalene(NAP)	★	mg/kg	0.01	ND
Acenaphthylene(ANY)	★	mg/kg	0.01	ND
Acenaphthene(ANA)	★	mg/kg	0.01	ND
Fluorene(FLU)	★	mg/kg	0.01	ND
Phenanthrene(PHE)	★	mg/kg	0.01	ND
Anthracene(ANT)	★	mg/kg	0.01	ND
Fluoranthene(FLT)	★	mg/kg	0.01	ND
Pyrene(PYR)	★	mg/kg	0.01	ND
Benzo(a)anthracene(BaA)	★	mg/kg	0.01	ND
Chrysene(CHR)	★	mg/kg	0.01	ND
Benzo(b)fluoranthene(BbF)	★	mg/kg	0.01	ND
Benzo(k)fluoranthene(BkF)	★	mg/kg	0.01	ND
Benzo(a)pyrene(BaP)	★	mg/kg	0.01	ND
Indeno(1,2,3-c,d)pyrene(IPY)	★	mg/kg	0.01	ND
Dibenzo(a,h)anthracene(DBA)	★	mg/kg	0.01	ND
Benzo(g,h,i)perylene(BPE)	★	mg/kg	0.01	ND
Benzo(j)fluoranthene	★	mg/kg	0.01	ND
Benzo(e)pyrene	★	mg/kg	0.01	ND
Conclusion				PASS

Sample 005

Simulant Used : 95% Ethanol Aqueous Solution

Test Condition : 40 °C 0.5 hr(s)



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<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Naphthalene(NAP)	★	mg/kg	0.01	ND
Acenaphthylene(ANY)	★	mg/kg	0.01	ND
Acenaphthene(ANA)	★	mg/kg	0.01	ND
Fluorene(FLU)	★	mg/kg	0.01	ND
Phenanthrene(PHE)	★	mg/kg	0.01	ND
Anthracene(ANT)	★	mg/kg	0.01	ND
Fluoranthene(FLT)	★	mg/kg	0.01	ND
Pyrene(PYR)	★	mg/kg	0.01	ND
Benzo(a)anthracene(BaA)	★	mg/kg	0.01	ND
Chrysene(CHR)	★	mg/kg	0.01	ND
Benzo(b)fluoranthene(BbF)	★	mg/kg	0.01	ND
Benzo(k)fluoranthene(BkF)	★	mg/kg	0.01	ND
Benzo(a)pyrene(BaP)	★	mg/kg	0.01	ND
Indeno(1,2,3-c,d)pyrene(IPY)	★	mg/kg	0.01	ND
Dibenzo(a,h)anthracene(DBA)	★	mg/kg	0.01	ND
Benzo(g,h,i)perylene(BPE)	★	mg/kg	0.01	ND
Benzo(j)fluoranthene	★	mg/kg	0.01	ND
Benzo(e)pyrene	★	mg/kg	0.01	ND
Conclusion				PASS

Sample 004

Simulant Used : Isooctane
 Test Condition : 20 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Naphthalene(NAP)	★	mg/kg	0.01	ND
Acenaphthylene(ANY)	★	mg/kg	0.01	ND
Acenaphthene(ANA)	★	mg/kg	0.01	ND
Fluorene(FLU)	★	mg/kg	0.01	ND
Phenanthrene(PHE)	★	mg/kg	0.01	ND
Anthracene(ANT)	★	mg/kg	0.01	ND
Fluoranthene(FLT)	★	mg/kg	0.01	ND



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Pyrene(PYR)	★	mg/kg	0.01	ND
Benzo(a)anthracene(BaA)	★	mg/kg	0.01	ND
Chrysene(CHR)	★	mg/kg	0.01	ND
Benzo(b)fluoranthene(BbF)	★	mg/kg	0.01	ND
Benzo(k)fluoranthene(BkF)	★	mg/kg	0.01	ND
Benzo(a)pyrene(BaP)	★	mg/kg	0.01	ND
Indeno(1,2,3-c,d)pyrene(IPY)	★	mg/kg	0.01	ND
Dibenzo(a,h)anthracene(DBA)	★	mg/kg	0.01	ND
Benzo(g,h,i)perylene(BPE)	★	mg/kg	0.01	ND
Benzo(j)fluoranthene	★	mg/kg	0.01	ND
Benzo(e)pyrene	★	mg/kg	0.01	ND

Conclusion

PASS

Sample 005

Simulant Used : Isooctane

Test Condition : 20 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
	<u>Limit</u>			
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Naphthalene(NAP)	★	mg/kg	0.01	ND
Acenaphthylene(ANY)	★	mg/kg	0.01	ND
Acenaphthene(ANA)	★	mg/kg	0.01	ND
Fluorene(FLU)	★	mg/kg	0.01	ND
Phenanthrene(PHE)	★	mg/kg	0.01	ND
Anthracene(ANT)	★	mg/kg	0.01	ND
Fluoranthene(FLT)	★	mg/kg	0.01	ND
Pyrene(PYR)	★	mg/kg	0.01	ND
Benzo(a)anthracene(BaA)	★	mg/kg	0.01	ND
Chrysene(CHR)	★	mg/kg	0.01	ND
Benzo(b)fluoranthene(BbF)	★	mg/kg	0.01	ND
Benzo(k)fluoranthene(BkF)	★	mg/kg	0.01	ND
Benzo(a)pyrene(BaP)	★	mg/kg	0.01	ND
Indeno(1,2,3-c,d)pyrene(IPY)	★	mg/kg	0.01	ND
Dibenzo(a,h)anthracene(DBA)	★	mg/kg	0.01	ND
Benzo(g,h,i)perylene(BPE)	★	mg/kg	0.01	ND
Benzo(j)fluoranthene	★	mg/kg	0.01	ND
Benzo(e)pyrene	★	mg/kg	0.01	ND

Conclusion

PASS



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Notes :

- (1) ★= Absent
- (2) Test condition & simulatant 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-Specific migration of formaldehyde

Test Method : With reference to EN13130-1:2004; analysis was performed by UV-vis.

Sample 001

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 40 °C 0.50 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	6.0
Specific migration of formaldehyde	15	mg/kg	0.1	ND
Conclusion				PASS

Notes :

- (1) Test condition & simulatant were specified by client.

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 EN13130-1:2004, analysis was performed by LC-DAD.

Sample 003

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 70 °C 0.5 hr(s)

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

Notes :



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(1) 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, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation -Specific migration of acetaldehyde

Test Method : With reference to EN13130-1:2004, analysis was performed by LC-DAD.

Sample 003

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	6.0
Specific migration of acetaldehyde	6.0	mg/kg	1.0	ND
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-Specific migration of heavy metal

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

Sample 002

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 40 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	6.0
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	0.25	ND
Lithium(Li)	0.6	mg/kg	0.5	ND
Manganese(Mn)	0.6	mg/kg	0.25	ND



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Zinc(Zn)	5	mg/kg	0.5	ND
Nickel(Ni)	0.02	mg/kg	0.02	ND
Conclusion				PASS

Sample 003

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 70 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	6.0
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	0.25	ND
Lithium(Li)	0.6	mg/kg	0.5	ND
Manganese(Mn)	0.6	mg/kg	0.25	ND
Zinc(Zn)	5	mg/kg	0.5	ND
Nickel(Ni)	0.02	mg/kg	0.02	ND
Conclusion				PASS

Sample 004

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 40 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	6.0
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	0.25	ND
Lithium(Li)	0.6	mg/kg	0.5	ND
Manganese(Mn)	0.6	mg/kg	0.25	ND
Zinc(Zn)	5	mg/kg	0.5	ND



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Nickel(Ni) 0.02 mg/kg 0.02 ND
Conclusion **PASS**

Sample 005

Simulant Used : 3% Acetic acid (W/V) aqueous solution
 Test Condition : 40 °C 0.5 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	6.0
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	0.25	ND
Lithium(Li)	0.6	mg/kg	0.5	ND
Manganese(Mn)	0.6	mg/kg	0.25	ND
Zinc(Zn)	5	mg/kg	0.5	ND
Nickel(Ni)	0.02	mg/kg	0.02	ND
Conclusion				PASS

Notes :

(1) 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, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation -Specific migration of antimony

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

Sample 003

Simulant Used : 3% Acetic acid (W/V) aqueous solution
 Test Condition : 70.0 °C 0.5 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	6.0
Specific migration of antimony	0.04	mg/kg	0.01	ND



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Conclusion

PASS

Notes :

(1) 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, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation-Lead(Pb) and cadmium(Cd)

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Total Lead	40	mg/kg	2	ND
Total Cadmium	★	mg/kg	2	ND
Conclusion				PASS

Notes :

(1) ★=Absent

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>003</u>
Antimony	350	mg/kg	10	169
Conclusion				PASS

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation-Pentachlorophenol (PCP)

Test Method : With reference to LFGB § 64 BVL B 82.02.8 – 2001, analysis was performed by GC-ECD or GC-MS.



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Test Item(s)	Limit	Unit	MDL	001
Pentachlorophenol (PCP)	0.15	mg/kg	0.05	ND
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.

Test Item(s)	Limit	Unit	MDL	003
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

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution CM/Res(2013)9 and BfR recommendation-Extractable heavy metals

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



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Sample 002:

PASS

Simulant Used : 0.5% Citric acid (W/V) aqueous solution

Test Condition : 40 °C 0.5 hr(s)

Area/Volume : 6.0 dm²/kg

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>1st + 2nd Migration</u>
Aluminium(Al)	35	mg/kg	0.2	ND
Antimony(Sb)	0.28	mg/kg	0.02	ND
Chromium(Cr)	1.750	mg/kg	0.100	ND
Cobalt(Co)	0.14	mg/kg	0.01	ND
Copper(Cu)	28	mg/kg	0.1	ND
Iron(Fe)	280	mg/kg	0.25	ND
Manganese(Mn)	12.6	mg/kg	0.25	ND
Molybdenum(Mo)	0.84	mg/kg	0.02	ND
Nickel(Ni)	0.98	mg/kg	0.05	ND
Silver(Ag)	0.56	mg/kg	0.03	ND
Tin (Sn)	700	mg/kg	5	ND
Vanadium(V)	0.07	mg/kg	0.005	ND
Zinc(Zn)	35	mg/kg	1	ND
Arsenic(As)	0.014	mg/kg	0.001	ND
Barium(Ba)	8.4	mg/kg	0.25	ND
Beryllium(Be)	0.07	mg/kg	0.005	ND
Cadmium(Cd)	0.035	mg/kg	0.002	ND
Lead(Pb)	0.070	mg/kg	0.005	ND
Lithium(Li)	0.336	mg/kg	0.02	ND
Mercury(Hg)	0.021	mg/kg	0.002	ND
Thallium(Tl)	0.0007	mg/kg	0.0001	ND
Magnesium(Mg)	-	mg/kg	5	ND
Titanium(Ti)	-	mg/kg	0.05	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>3rd Migration</u>
Aluminium(Al)	5	mg/kg	0.2	ND
Antimony(Sb)	0.04	mg/kg	0.02	ND
Chromium(Cr)	0.250	mg/kg	0.100	ND
Cobalt(Co)	0.02	mg/kg	0.01	ND
Copper(Cu)	4	mg/kg	0.1	ND
Iron(Fe)	40	mg/kg	0.25	ND
Manganese(Mn)	1.8	mg/kg	0.25	ND
Molybdenum(Mo)	0.12	mg/kg	0.02	ND
Nickel(Ni)	0.14	mg/kg	0.05	ND
Silver(Ag)	0.08	mg/kg	0.03	ND
Tin (Sn)	100	mg/kg	5	ND
Vanadium(V)	0.01	mg/kg	0.005	ND



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Test Report

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>3rd Migration</u>
Zinc(Zn)	5	mg/kg	1	ND
Arsenic(As)	0.002	mg/kg	0.001	ND
Barium(Ba)	1.2	mg/kg	0.25	ND
Beryllium(Be)	0.01	mg/kg	0.005	ND
Cadmium(Cd)	0.005	mg/kg	0.002	ND
Lead(Pb)	0.010	mg/kg	0.005	ND
Lithium(Li)	0.048	mg/kg	0.02	ND
Mercury(Hg)	0.003	mg/kg	0.002	ND
Thallium(Tl)	0.0001	mg/kg	0.0001	ND
Magnesium(Mg)	-	mg/kg	5	ND
Titanium(Ti)	-	mg/kg	0.05	ND

Notes :

- (1) Test condition & simulant were specified by client.
- (2) Requirement for repeat use article: According to Council of Europe Resolution CM/Res(2013)9, the result from 3rd migration shall comply with the Specific Release Limit (SRL) and the sum of 1st and 2nd migration shall not exceed seven times of SRL for repeated use articles.



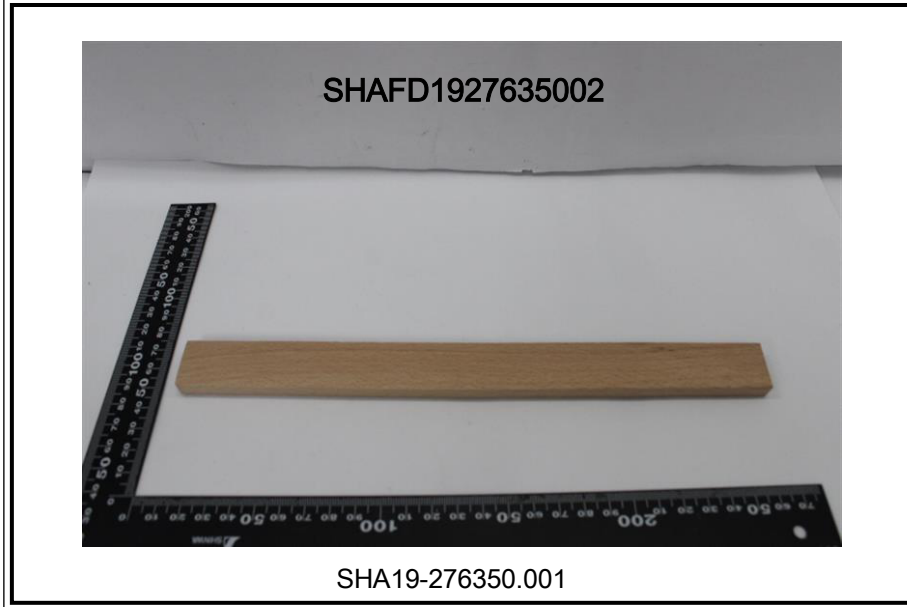
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