

Test Report No.: SHG20110609031

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Client: Genimex Jersey Ltd.
9A, Catic Tower, No. 212, Jiangning Road, Jing An District, Shanghai, 200041,
P.R.China

Buyer's name: n.a.

Manufacturer's name: Wenling Jianbo Plastic Manufacture Factory

Test item(s): Anti-bacterial cutting board

**Identification/
Model No(s):** n.a.

Sample Receiving date: Jun. 09, 2011

Delivery condition: Apparent good, Samples tested as received

Test location: TÜV Rheinland (Shanghai) Co. Ltd.- Product and Environmental Analyses;
Shanghai TUV building, No.177, Lane 777, West Guangzhong Road, Zhabei District,
Shanghai 200072, P.R.China

Test specification:

Test result:

Performed tests for the compliance with the following regulations concerning materials in contact with foodstuff: Pass

- Regulation (EC) No 1935/2004
- German § 30 and § 31 LFGB (Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch)

Other Information:

Test period: Jun. 09, 2011– Jun. 17, 2011

Abbreviations: ok / P = passed
fail / F = failed
n.a. / N = not applicable

Tested by:

Checked by:



Jun. 20, 2011 Xiulan Cai Chemist
Date Name/Position

Melanie Schubert Technical Expert
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.*

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Photo of test specimen:



Material List:

Item No.	Test Item (Product Description, Material, Colour)
	Anti-bacterial cutting board
1	White PP Cutting board with black edge
1-1	Black edge, TPR
1-2	White board, PP

Overall result:

No.	Tested Item	Conclusion
1	Sensorial examination	Pass
2	Global Migration	Pass
3	Transfer of colourants	Pass
4	Release of Heavy Metals from Polymers	Pass
5	Polycyclic Aromatic Hydrocarbons (PAHs)_migration test	Pass
6	Total Cadmium	Pass
7	Phthalates	Pass

Test results:**1 Sensorial examination**

Test performance: according to DIN 10955:2004-06

Before testing, the product had been cleaned according to the product's instruction manual or in the absence of such manual, by flushing with water and soap for 3 times.

Evaluation scheme for the transfer of taste and smell:

- 0 = no discernible deviation
- 1 = barely discernible deviation
- 2 = weak deviation
- 3 = clear deviation
- 4 = strong deviation

Limit: 3 (failed)

The following food simulants and conditions were applied:

food simulant	test duration/temperature
Water	2h / 70°C

Item No.	Whole product	
	Result	Conclusion
transfer of smell	0	Pass
transfer of taste	0	Pass

2 Global Migration

Test method: according to Directive 82/711/EEC and Council Directive 85/572/EEC and its corresponding regulations
 Deviating to the regulations the following tests were performed as orientating single tests.

The following food simulants and conditions were applied:

food simulant	test duration/temperature
3% acetic acid	2h / 70°C
95% ethanol	2h / 60°C
Isooctane	0.5h / 40°C

Results 1st migration:

Item No.	Whole product			
Parameter	Unit	Result	Limit	Conclusion
Migration preparation	-	20.80dm ² /1500ml	-	-
3% acetic acid	mg/dm ²	< 2	10	Pass
95% ethanol	mg/dm ²	< 2	10	Pass
Isooctane	mg/dm ²	< 2	10	Pass

Requirement acc. to Commission Regulation (EU) No 10/2011: Global Migration ≤ 10 mg/dm²

3 Transfer of colourants

Test method: according to Minute "24. Mitteilung zur Untersuchung von Kunststoffen", BGesundhbl. 15, 285 (1972)

Item No.	1-1	
Color fastness to food stimulant	Evaluation	Conclusion
Water	No transfer of colourants	Pass
2% Acetic Acid	No transfer of colourants	Pass
10 % Ethanol	No transfer of colourants	Pass
Oil	No transfer of colourants	Pass

Requirement acc. to BfR recommendation on Food Contact Materials Part IX "synthetics in contact with foodstuff": no transfer of colourants into the food simulant

4 Release of Heavy Metals from Polymers

Test method: Migration according to Directive 82/711/EEC and Council Directive 85/572/EEC and its corresponding regulations, Determination of Heavy Metals by ICP-MS

The following food simulants and conditions were applied:

food simulant	test duration/temperature
3% acetic acid	2h / 70°C

Results 1st migration:

Item No.	Whole product			
Parameter	Unit	Result	Limit*	Conclusion
Migration preparation	-	20.80dm ² /1500ml	-	-
Barium	mg/kg	< 0.02	1	Pass
Cobalt	mg/kg	< 0.02	0.05	Pass
Copper	mg/kg	< 0.02	5	Pass
Iron	mg/kg	0.13	48	Pass
Lithium	mg/kg	< 0.02	0.6	Pass
Manganese	mg/kg	< 0.02	0.6	Pass

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Zinc	mg/kg	< 0.02	25	Pass
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* Requirements acc. to Regulation (EU) No 10/2011

5 Polycyclic Aromatic Hydrocarbons (PAHs)_migration test

Test method : Migration according to Directive 82/711/EEC and Council Directive 85/572/EEC and its corresponding regulations, Determination with reference to ZEK 01.2-08

Requirement : ZEK 01.2 -08

Food simulant	Test duration/temperature
Isooctane	0.5h / 40°C

Parameter	CAS No.	Unit	Item No – Whole product
Sum of listed PAHs²	--	mg/l	n.d.
Naphthalene	91-20-3	mg/l	n.d.
Acenaphthylene	208-96-8	mg/l	n.d.
Acenaphthene	83-32-9	mg/l	n.d.
Fluorene	86-73-7	mg/l	n.d.
Phenanthrene	85-01-8	mg/l	n.d.
Anthracene	120-12-7	mg/l	n.d.
Fluoranthene	206-44-0	mg/l	n.d.
Pyrene	129-00-0	mg/l	n.d.
Chrysene	218-01-9	mg/l	n.d.
Benz(a)anthracene	56-55-3	mg/l	n.d.
Benzo(b)fluoranthene	205-99-2	mg/l	n.d.
Benzo(k)fluoranthene	207-08-9	mg/l	n.d.
Benzo(a)pyrene	50-32-8	mg/l	n.d.
Indeno(1,2,3-cd)pyrene	193-39-5	mg/l	n.d.
Dibenzo(a,h)anthracene	53-70-3	mg/l	n.d.
Benzo(g,h,i)perylene	191-24-2	mg/l	n.d.
Summary to requirement in ZEK 01.2 -08			Pass

Remark:

1 "mg/kg" denotes milligram per kilogram

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- 2 In the case of all 16 PAH were not detected, the result is stated n.d. (not detected, less than 0.01 mg/kg simulant). Single components with an amount of < 0,01 mg/l were not considered by the calculation of the sum.

6 Total Cadmium

The test sample is dissolved by means of acid dissolution. The concentration of elements is determined by means of ICP-OES.

Item No.	1-1+1-2			
Parameter	Unit	Result	Requirement	Conclusion
Cadmium (Cd)	mg/kg	< 2	100	Pass

The limit of cadmium according to 1907/2006/EC, Annex XVII is 100 mg/kg.

7 Phthalates

Test method: Organic solvent extraction, Determination by GC-MS

Item No.	1-1			
Parameter	Unit	Detection Limit	Result	Conclusion
DEHP	%	0.005	n.d.	Pass
DBP	%	0.005	n.d.	Pass
BBP	%	0.005	n.d.	Pass
DINP	%	0.02	n.d.	Pass
DIDP	%	0.02	n.d.	Pass
DNOP	%	0.005	n.d.	Pass

n.d. denotes less than Limit of Detection

There are no legally binding regulations regarding the use of the specified phthalate softeners for such kind of consumer products.

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