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Test Report No.: 55177395/12

Project No.: 55177395

Client: Kambukka bvba
Stijn Lowette
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3500 Hasselt
Belgium

Date of order: 19.04.2012

Sample received: 20.04.2012

Number of samples: 1 sample

Article description: „West loop black“

Scope of investigation: Testing of consumer goods

Testing Period: 20.04.2012 – 11.05.2012

Test Result:

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Accredited Analytical Laboratory D-PL-11067-02-00 in Stuttgart and Halle (Saale).

Sample No.:	55177395001			
Sample designation:	„West loop black“ (complete product)			
Sample description:	commodity			
Parameter	Unit	Result	LQ	Method
Sensorical test ^{1,2}	-	2	-	Acc. to DIN 10 955
Global migration: 3% acetic acid ³	mg/dm ²	6,3	0,1	Annex III of Reg. (EU)10/ 2011
Global migration: 10 % ethanol ³	mg/dm ²	2,0	0,1	
Primary aromatic amines ⁴	mg/ L	< LQ	0,002	§ 64 LFGB L 00.00-6
Specific migration of metals ⁵				
Barium	mg/ L	< LQ	0,01	VO (EU) 10/2011 EN ISO 11885
Cobalt	mg/ L	< LQ	0,01	
Copper	mg/ L	< LQ	0,01	
Iron	mg/ L	0,13	0,01	
Lithium	mg/ L	< LQ	0,01	
Manganese	mg/ L	0,014	0,002	
Zinc	mg/ L	0,02	0,01	

¹ Scale of intensity

- 0 - no noticeable change of smell and taste
- 1 - marginal change of smell and taste
- 2 - slight change of smell and taste
- 3 - clear change of smell and taste
- 4 - strong change of smell and taste

² Testing conditions:

sample was filled with hot (boiling) water, sample stood 24 h with closed lid (turned upside down)

³ Testing conditions:

sample was filled with hot (boiling) simulant, sample stood 24 h with closed lid (turned upside down)

⁴ Testing conditions:

sample was filled with hot (boiling) 3 % acetic acid, sample stood 24 h with closed lid (turned upside down);
not accredited test method

⁵ Testing conditions:

sample was filled with hot (boiling) 3 % acetic acid, sample stood 24 h with closed lid (turned upside down)

Sample No.:	55177395002			
Sample designation:	„West loop black“ (plastic material)			
Sample description:	commodity			
Parameter	Unit	Result	LQ	Method
Heavy metals – mixed sample (black plastic material of bottle and coating)				
Cadmium	mg/kg	< LQ	2	EN ISO 11885
Lead	mg/kg	< LQ	10	
Heavy metals – mixed sample (red and grey plastic material of bottle)				
Cadmium	mg/kg	< LQ	2	EN ISO 11885
Lead	mg/kg	< LQ	10	

Sample No.:	55177395003			
Sample designation:	„West loop black“ (metal part)			
Sample description:	commodity			
Parameter	Unit	Result	LQ	Method
Specific migration of metals – metal part ⁶				
Aluminium (Al)	mg/ L	< LQ	0,01	EUR 23814/ EN 2009 EN ISO 11885
Arsene (As)	mg/ L	< LQ	0,01	
Barium (Ba)	mg/ L	< LQ	0,01	
Cadmium (Cd)	mg/ L	< LQ	0,002	
Chromium (Cr)	mg/ L	0,01	0,01	
Cobalt (Co)	mg/ L	< LQ	0,01	
Copper (Cu)	mg/ L	< LQ	0,01	
Iron (Fe)	mg/ L	0,13	0,01	
Lead (Pb)	mg/ L	< LQ	0,02	
Lithium (Li)	mg/ L	< LQ	0,01	
Manganese (Mn)	mg/ L	0,014	0,002	
Nickel (Ni)	mg/ L	0,09	0,01	
Silver (Ag)	mg/ L	< LQ	0,01	
Tin (Sn)	mg/ L	0,02	0,02	
Zinc (Zn)	mg/ L	0,02	0,01	

⁶ Testing conditions:
sample was filled with hot (boiling) 3 % acetic acid, sample stood 24 h with closed lid

Product foto:



Resume:

According to §2 subsection 6 no.1 of the German Food and Feed Code (LFGB) the tested sample is a food contact article.

According to article 3 subsection 1 c of the regulation (EC) 1935/2004 materials and articles shall be manufactured in compliance with good manufacturing practise so that, under normal or foreseeable conditions of use, they do not transfer their constituents to food in quantities which could bring about a deterioration in the organoleptic characteristics thereof.
The tested sample meets this requirement.

The sample meets the limit values for the migration of metals according to annex II of the Regulation (EU) 10/2011 on plastic materials and articles intended to come into contact with food.

According to article 10 combined with annex II of the regulation (EU) 10/2011 plastic materials and articles shall not release primary aromatic amines in a detectable quantity into food or food stimulant (detection limit is 0,01 mg per kg of food or food stimulant).
The tested extract of the tested sample meets this requirement.

According to article 12 (1) of the regulation (EU) 10/2011 plastic materials and articles shall not transfer their constituents to food simulants in quantities exceeding 10 milligrams per dm².
The sample keeps this limit for all tested simulants.

The sample (metal part) meets the limit values for the migration of metals of the German Drinking Water Act (TrinkwV – Trinkwasserverordnung), except Nickel.

In the mixed samples no Cadmium and Lead were detected.

Hints:

The test results refer exclusively to the samples specified. A reproduction in excerpts of the test report must not be made without the written consent of the test laboratory. Samples will be stored according to QMH 2001.5.8 for max. 6 months (for exceptions and specific storage times see QMH 2001.5.8). This test report replaces the test report of the same Project number with an index reduced by 1.

Stuttgart, 2012/05/11

DEKRA Industrial GmbH
Laboratory for Environmental and Product Analysis



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