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Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

Test Report

Number: HKGH02117655 S1

Applicant: LUOYANG TIANJIU ALUMINUM CO LTD
THE CROSSING OF SUNXIN AND
ZHANGHENG ROAD PEONY AVENUE
LUOLONG LUOYANG
HENAN 471023 CHINA
Attn: JOSEPH VON / JACK LIU / JIN ZHIHONG

Date: May 04, 2017

*This is to supersede Report No.
HKGH02117655 dated May 04, 2017*

Submitted sample said to be:

- IKEA Article Name : - KAVALKAD NN frying pan s2 black.
- KAVALKAD NN frying pan s2 black AP JP.
- KAVALKAD NN frying pan s2 black RU.
- IKEA Article No. : 401.393.21 / 901.659.73 / 403.729.27.
- Supplier No. : 22117.
- Supplier Name : Luoyang Tianjiu Aluminum Ltd.
- Buyer : IKEA.
- Country of Origin : China.
- Quantity : 18 Sets.
- Date Stamp : 1710 (Specified by the Applicant).
- IKEA Contact Person : Bin Wang (bin.wang11@ikea.com).
- IKEA Office Location : Shanghai.
- Component Location : Primer/Top.
- Material : 479g-12190/475g-12392.
- Material Supplier : The Chemours (Changshu) Fluoro Technology Company.
- Material Colour : Sparking Black.



For and on behalf of :
Intertek Testing Services HK Ltd.

Angel Y.F. Cheung
Vice President





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Applicant's Reference :

As declared by the applicant, the following article have identical base material as submitted sample:

- 002.677.06 KAVALKAD frying pan 24 black.
- 802.677.07 KAVALKAD frying pan 24 black AP JP.
- 603.729.26 KAVALKAD frying pan 24 black RU.
- 601.393.20 KAVALKAD N frying pan 28 black.
- 501.659.70 KAVALKAD N frying pan 28 black AP JP.
- 103.935.30 KAVALKAD N frying pan 28 black RU.
- 201.393.22 KAVALKAD NN saucepan s3 black.
- 401.420.26 KAVALKAD NN saucepan s3 black AP JP.
- 603.734.69 KAVALKAD NN saucepan s3 black RU.

Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) IKEA Specification IOS-PRG-0021 Version No. AA-31847-7 on Sensory Evaluation	Pass
(2) GB11678-1989 - Hygienic standard for polytetrafluoroethylene used as inner coating of food containers (clause 4-Requirement)	Pass



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(1) Sensory Evaluation

As per IKEA Specification IOS-PRG-0021 Version No. AA-31847-7, DIN10955 was used.

Test Condition: IOS-TM-0024 Version No. AA-1180069-2.

Food Simulant : Distilled water			
Temperature and Time : 100 °C for 2 hours			
Tested sample	Test panel	Result (Intensity scale)	
		Odour	Taste
(1)	1	0	1
	2	0	0
	3	0	1
	4	0	1
	5	0	1
	6	0	1
	Median	0	1
Requirement		≤ 2.5	≤ 2.5

Intensity scale: 0 = No perceptible odour / off-taste
 1 = Odour / off-taste just perceptible (but still difficult to define)
 2 = Slight odour / off-taste
 3 = Distinct odour / off-taste
 4 = Strong odour / off-taste

Tested Sample :

(1) KAVALKAD NN frying pan S2 black.

Date sample received : Apr 21, 2017

Testing period : Apr 21, 2017 to Apr 29, 2017



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(2) GB Hygienic Standard Test on Polytetrafluoroethylene

As per GB11678-1989 “Hygienic standard for polytetrafluoroethylene used as inner coating of food containers and packaging materials”, GB/T 5009.80-2003 “Method for analysis of hygienic standard of polytetrafluoroethylene used as inner coating of food containers and packaging materials”, GB/T 5009.60-2003 “Method for analysis of hygienic standard of products of polyethylene, polystyrene and polypropylene for food packaging” and GB/T 5009.18-2003 “Determination of fluorine in foods”.

Test Item	Results	Requirement
1) Evaporation residue (mg/l)	(1)	
- Water (boiling 0.5hour and storing at room temperature for 24hours)	<10	≤ 30
- 4% Acetic acid (boiling 0.5hour and Storing at room temperature for 24hours)	18	≤ 60
- n-Hexane (room temperature for 24hours)	<10	≤ 30
2) Chromium (mg/l)		
- 4% Acetic acid (boiling 0.5hour and storing at room temperature for 24hours)	<0.005	≤ 0.01
3) Fluoride (mg/l)		
- Water (boiling 0.5hour and storing at room temperature for 24hours)	<0.2	≤ 0.2
4) Consumption of KMnO ₄ (mg/l)		
- Water (boiling 0.5hour and storing at room temperature for 24hours)	<4	≤ 10
5) Colour leaching test		
- Soaking solution	Negative	Negative

Remark :
mg/l = milligram per liter

Tested Component :

- (1) Metal pan with black coating.

Date sample received : Apr 21, 2017
Testing period : Apr 21, 2017 to Apr 29, 2017

End of report

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To: LUOYANG TIANJIU ALUMINUM CO LTD Ref: FC-2017-4285
Attention: JOSEPH VON / JACK LIU / JIN ZHIHONG Date: May 12, 2017

Re : Report Revision Notification

Intertek Testing Services Report Number HKGH02117655 Dated May 04, 2017.

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services report, HKGH02117655 S1.

Thank you for your attention.

For and on behalf of :
Intertek Testing Services HK Ltd.

Angel Y.F. Cheung
Vice President