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DIRECTORATE FOR STANDARDS, METROLOGY AND QUALITY
TRUNG TÂM KỸ THUẬT TIÊU CHUẨN ĐO LƯỜNG CHẤT LƯỢNG 3
QUALITY ASSURANCE AND TESTING CENTER 3

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Ref: 1605b/N3.13/DG

Date: 30 July 2013

CERTIFICATE OF ANALYSIS

GREAT ALLIANCE TRADING (SINGAPORE) PTE LTD
Co Reg No: 200705352N
33 Ubi Ave 3 Vortex # 04 -27
Singapore 408868
Tel: (65) 6224 9770 Fax: (65) 6220 5131

1. Client : Chansin Co., Ltd
2. Declared name of sample : PET Black film
3. Number of sample : 01
4. Sample submitted on : 19 July 2013
5. Criteria :
 - 5.1) QCVN 12-1:2011/BYT- National Technical Regulation on Safety and Hygiene for Plastic containers and Packaging in direct contact with foods
 - 5.2) Resolution AP(89)1 on the use of colourant in plastic materials coming into contact with foods adopted by Council of Europe-Committee of Ministers

6. TEST RESULTS

	Characteristics	Test result	Maximum levels permitted at item 5
6.1	Appearance	Black colour film	-
6.2	Identification of plastic	Polyethylene terephthalate	-
6.3	Total dried residues extracted, µg/mL <ul style="list-style-type: none">From distilled water at 60°C, 30 minFrom n-heptane at 25°C, 60 minFrom acetic acid 4% (v/v) at 60°C, 30 minFrom ethanol 20% (v/v) at 60°C, 30 min	<ul style="list-style-type: none">< 5.0< 5.09.5< 5.0	<ul style="list-style-type: none">30303030
6.4	KMnO ₄ consumed in distilled water at 60°C, 30 min, µg/mL	0.7	10
6.5	Total metals extracted from acetic acid 4% (v/v) at 60°C, 30 min, µg/mL <ul style="list-style-type: none">Heavy metal contents (as lead)Antimony (Sb)Germanium (Ge)	<ul style="list-style-type: none">< 1< 0.02< 0.01	<ul style="list-style-type: none">10.050.1
6.6	Colorant migration from the sample into the extractives stated at 6.3	Negative	-
6.7	Metals content in the material, µg/g <ul style="list-style-type: none">Lead (Pb)Cadmium (Cd)	<ul style="list-style-type: none">< 4.0< 0.5	<ul style="list-style-type: none">100100

7. Remark: The obtained test result of the above sample has conformed to the requirements stated at item 5 for the film intended to come into contact with all kinds of foods.

F.N: This certificate is valid for the above sample only.

Recipients:

- The company mentioned above,
- Archives. NV3

