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Test Report

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FORMOSA CHEMICALS & FIBRE CORPORATION
201, TUNG HWA N. ROAD, TAIPEI, TAIWAN, R. O. C.

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Product Description	:	POLYPROPYLENE
Style/Item No.	:	TAIRIPRO PP B1101, F1611, F2003, F2011, K1011, K1023, K1035, K1060, K1108, K1525, K2038, K2051, K2065, S1003, S1005, S1019, S1023, S1040, S1803, S2023, S2035, S2123, T1002, T1202, T2502, F4002, F4007, F4008, K4015, K4038, K4502, K4515, K4535, K4635, K4715, T3002, T4002, B8001, BC03ZX, K3004, K3009AU, K3029, K7005, K7025, K8003, K8005, K8009, K8025, K8050, K8065, K8802, K9003, K9010, K9017, KP03B, T7002, T8002
Sample Material	:	POLYPROPYLENE
Sample Receiving Date	:	2011/07/22
Testing Period	:	2011/07/22 TO 2011/08/05

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Test Requested : Testing as per Commission Regulation (EU) No 10/2011 of 14 January 2011 and hence Article 3 of European Regulation No. 1935/2004.

Test Method : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Summary :

(1)	Plastic - Specific Migration of Heavy Metal	PASS
(2)	Plastic - Phthalates content	PASS
(3)	Plastic - Overall migration	PASS

SGS TAIWAN LTD SGS TAIWAN

James Lu / Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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Test Result(s)

PART NAME No.1 : TRANSPARENT PLASTIC SHEET

(1) Plastic - Specific Migration of Heavy Metal PASS

Test Item (s)	Unit	Method	MDL	Result No.1	Limit
Barium(Ba)	mg/kg	Sample preparation in 3% acetic acid at 20℃ for 0.5 hour with reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN13130-1:2004 for selection of test method; followed by analysis using ICP-AES.	0.25	n.d.	1
Cobalt(Co)	mg/kg		0.01	n.d.	0.05
Copper(Cu)	mg/kg		0.25	n.d.	5
Iron(Fe)	mg/kg		0.25	n.d.	48
Lithium(Li)	mg/kg		0.5	n.d.	0.6
Manganese(Mn)	mg/kg		0.25	n.d.	0.6
Zinc(Zn)	mg/kg		0.5	n.d.	25
Barium(Ba)	mg/kg	Sample preparation in 10% ethanol at 20℃ for 0.5 hour with reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN13130-1:2004 for selection of test method; followed by analysis using ICP-AES.	0.25	n.d.	1
Cobalt(Co)	mg/kg		0.01	n.d.	0.05
Copper(Cu)	mg/kg		0.25	n.d.	5
Iron(Fe)	mg/kg		0.25	n.d.	48
Lithium(Li)	mg/kg		0.5	n.d.	0.6
Manganese(Mn)	mg/kg		0.25	n.d.	0.6
Zinc(Zn)	mg/kg		0.5	n.d.	25

(2) Plastic - Phthalates content PASS

Test Item (s)	Unit	Method	MDL	Result No.1	Limit
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	0.1
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%		0.003	n.d.	0.1
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0)	%		0.01	n.d.	0.1
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0)	%		0.01	n.d.	0.1
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%		0.003	n.d.	0.05

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(3) Plastic - Overall migration PASS

Simulant Used	Unit	Method	MDL	Result No.1	Limit
10% Ethanol (V/V) Aqueous Solution	mg/dm²	With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN1186-1:2002 for selection of test method.	3.0	n.d.	10
3% Acetic Acid (W/V) Aqueous Solution	mg/dm²	With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN1186-1:2002 for selection of test method.	3.0	n.d.	10
Rectified Olive Oil	mg/dm²	With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN1186-1:2002 for selection of test method.	3.0	n.d.	10

Remark:

A. Test condition & simulant were specified by client: 20℃, 10Days
B. Analytical tolerance of aqueous simulants is 1mg/dm^2 .
C. Analytical tolerance of fatty food simulants is 3mg/dm^2.

Note:

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. % = percentage of weight by weight
3. mg/dm²= milligram per square decimeter
4. ℃ = degree Celsius
5. n.d. = Not Detected
6. MDL = Method Detection Limit
7. Test condition & simulant were specified by client.
8. 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.
9. Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011.

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** End of Report **

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