

TEST REPORT

Reference No. : TRHZ1401185

Date : Jan. 27, 2014

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Client : COSMO PACKAGING MATERIAL CO., LTD.

Address : NO. 298, LIDU ROAD, SHIPU TOWN, JIANGSU PROVINCE, CHINA

The following merchandise was (were) submitted and identified by the client as:

Name of Product : POLYOLEFIN SHRINK FILM

Test Model : /

Model May Cover : /

Sample Received : Jan. 14, 2014

Test Period : Jan. 14, 2014 - Jan. 26, 2014

Test Request : For compliance with Commission Regulation (EU) No 10/2011 and its subsequent amendment Regulation EU No.1282/2011 and 1183/2012 on plastic materials and articles intended to come into contact with foodstuffs.

1) For material: Plastic -Overall Migration test

2) For material: Plastic -Soluble Heavy Metals

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

Conclusion : When tested as specified, the test results of the submitted sample **do not exceed** the requirements stated in Commission Regulation (EU) No 10/2011 of 14 January 2011 and its subsequent amendment Regulation EU No.1282/2011 and 1183/2012 on plastic materials and articles intended to come into contact with food .

Hence, the test results of the submitted sample **do not exceed** The General Requirement (Article 3) in EU Regulation No. 1935/2004.

Issued by:


TÜV NORD Green Product Service Centre
Technical Manager

TÜV NORD (Hangzhou) CO.,LTD.

Member of TÜV NORD Group

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TEST RESULTS:

1) Overall migration test

Test method: With reference to EN1186-1:2002 for selection of conditions and test methods;
EN1186-3:2002 aqueous food simulants by total immersion method;
EN1186-2:2002 olive oil by total immersion method;
EN 1186-14:2002 substitute test

Simulant Used	Test Condition	Overall Migration (mg/dm ²)	Maximum Permissible Limit (mg/dm ²)
Deionized Water	10 days at 40 °C	<3.0	10
3% Acetic Acid (W/V) Aqueous Solution	10 days at 40 °C	<3.0	10
95% Ethanol (V/V) Aqueous Solution	10 days at 40 °C	<3.0	10
Isooctane	2 days at 20 °C	<3.0	10

2) Soluble heavy metals

Test method: Sample preparation in 3% Acetic acid at 40°C for 10 days, followed by analysis using Inductively Coupled Argon Plasma Spectrometer.

Test Item	Result (mg/kg)	Maximum Permissible Limit (mg/kg)
Soluble Barium	<0.01	1
Soluble Cobalt	<0.01	0.05
Soluble Copper	<0.01	5
Soluble Iron	<0.01	48
Soluble Lithium	<0.01	0.6
Soluble Manganese	<0.01	0.6
Soluble Zinc	<0.01	25

Test Part Description: Transparent film

***** To be continued *****

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SAMPLE PHOTO



***** END OF REPORT *****