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TEST REPORT

Applicant : **ALCAN COMPOSITES**
C/O Alcan Airex AG
Industrie Nord
SINS
CH-5643
SUISSE

Request date : Bon pour accord sur devis le 30/06/2008

Subject : Examination of inertness of a material intended to come in contact with foods :
OVERALL MIGRATION TEST

Reference documents :

- NF EN 1186-3 (January 2003)
- NF EN 1186-14§3 (January 2003)
- Directive n° 85/572/EEC of 19 December 1985
- Directive n° 2002/72/EC of 6 August 2002
- Directive n°2004/1/EC of 6 January 2004
- Directive n°2004/19/EC of 1 March 2004
- Directive n°2005/79/EC of 18 November 2005
- Directive n°2007/19/EC of 2 April 2007
- Directive n°82/711/EEC of 18 October 1982
- Directive n°97/48/EEC of 29 July 1997
- Information notice of DGCCRF n°2004-64 of 06/05/04

Sample : White plate 19 mm

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It consists of 3 pages.**

1. SAMPLE

Reception date : 06 June 2008

Reference : White plate 19 mm resulting from the Range White plate comprising the following products:
 White plate 1 mm- White plate 2 mm- White plate 3 mm- White plate 4 mm- White plate 5 mm- White plate 6 mm- White plate 8 mm- White plate 10 mm- White plate 13 mm- White plate 15 mm

Type : PVC

This sample is intended to come into contact with aqueous , acids, alcohol, fatty foods and dairy products.

2. TEST PROCEDURE

Date of the beginning of the test :25 July 2008

The results of migration given in the chart below are the average of single measurements and are expressed in mg/dm² using a corrected factor for fatty food simulant :

Conditions of contact with samples As specified in NF EN 1186 – 1 (January 2003)	simulants	Observations of the sample	Observations of the simulant	individual values to the nearest 0,1 mg/dm ²)	Corrected factor	Average to the nearest mg/dm ² (Fat test) to the nearest 0,1 mg/dm ² (Aqueous test)
10 days at 40°C	Acetic acid 3%	no modification	no modification	25.4 27.9 26.1	-	26.5
10 days at 40°C	Ethanol 50%	no modification	no modification	3.6 3.7 3.3	-	3.5
10 days at 40°C	Ethanol 95%	no modification	no modification	4.7 5.4 3.5	1	4.5
2 days at 20°C	Isooctane	no modification	no modification	0.9 0.7 <0.1	1	0.6

Considering the material,the test can't be carried out with olive oil. Isooctane and ethanol 95% were chosen as fat simulants to comply with EC directive n° 97/48.

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Note : Limits for overall migration permitted in the plastics directive

- For aqueous food simulants, isooctane and ethanol 95 % :
 - 10 mg/dm² with an analytical tolerance of 2 mg/dm².
 - 60 mg/kg with an analytical tolerance of 12 mg/kg.
- For olive oil and sunflower oils :
 - 10 mg/dm² with an analytical tolerance of 3 mg/dm².
 - 60 mg/kg with an analytical tolerance of 20 mg/kg.

3. CONCLUSION

Under the conditions of the test, the values obtained for overall migration meet the overall migration limit as specified in Directive n°2002/72/EC for plastics intended to come into contact with aqueous, alcoholic up to 50° ,fatty foodstuffs and dairy products according to appendix VIII of the directive n°2007/19/EC which amends the directive n°85/572/CEE from 01/04/08 (Simulant C, as specified in Directive 85/572/EEC isooctane and ethanol 95% fatty simulant chosen in accordance with directive EC n°97/48).

Under the conditions of the test, the values obtained for overall migration doesn't meet the overall migration limit as specified in EC Directive n°2002/72 for plastics intended to come into contact with acid foodstuffs. (Simulant B as specified in EEC Directive 85/572).

Nota Bene : The material has to comply with the positive list given by French Regulation, and which appears in the "Brochure 1227 du Journal Officiel de la République Française".

Trappes, the 12 September 2008

Director Centre for Energy
Materials and Packaging



Hervé MARCEL



Test Operator
Isabelle BALLUAIS

In charge of the test



Françoise RUIZ

The results mentioned are only applicable to the sample, to the product, or to the material given to the laboratory such as it is defined in the present document.