LNE
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TEST REPORT

Applicant : XXXXXXXX

Order JEL MAY 2010 27/05/10 by Anne LE GOFF

Date of request reference : Examination of inertness of a material intended to come in contact with foods :

Subject :

- **overall migration test**

Reference documents :

- NF EN 1186 -2 (January 2003)
- NF EN 1186 -3 (January 2003)
- Procedure LNE n°621A0502 (Alternative methode for transestérification)
- 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°2008/39/EC of 06 March 2008
- 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 : Plaque PVC plane extrudée compact

1. SAMPLE

Reception date : 18 May 2010

Reference : EX-CEL PVC Rigid

Type : PVC
This material is intended to come into contact with aqueous, acid, alcoholic, fat foods and dairy products.

2. TEST PROCEDURE

Date of the beginning of the test : 04 June 2010

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/dm²	Corrected factor	Average to the nearest mg/dm² (fat test) to the nearest 0.1 mg/dm² (aqueous test)
10 days at 40℃	Acetic acid	no modification	no modification	11,6 11,4 11,0		11,3
10 days at 40℃	Ethanol at 50%	no modification	no modification	1,8 2,3 2,0		2,0
10 days at 40℃	Olive oil	no modification	no modification	2,3 2,6 3,1	1	3,0

The triglycerides transestérification was performed regarding the method described in the LNE internal procedure n°621A0502 as a substitute to the protocol of the standards EN 1186-2, 4, 6, 8, 10 - §7.5 et §7.6 et EN 1186-12.

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Note : Limits for overall migration permitted in the plastics directive :

- For aqueous food simulants, isooctan 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.
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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, acid, alcoholic up to 50%, fat foodstuffs and dairy products according to appendix VIII of the directive n°2007/19/CE which amends the directive n°85/572/CEE from 01/05/08. (Simulants B, C, D as specified in Directive 85/572/EEC).

Nota Bene : The components of the material must be authorized by the French and European regulation on materials intended to come into contact with foodstuffs.

Trappes, the 8 july 2010

Test operator
Séverine MAGNY

The Head of the Chemical Properties of Materials Departement

In charge of the test

Laboratoire national de métrologie et d'essais • LNE

Thierry VINCELOT

Maryline BESSUAND

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.