

Certificate of Conformity

With the regulations concerning materials and articles intended to come into contact with foodstuffs.

Certificate nr: PS 2010-0425

Date: 25-05-2010

Company/Manufacturer: Compax
Attn.
Waalbandijk 165
6650 AC Druten
The Netherlands

Product: PE film (83% FT5236 Borealis, 15% 310^E DOW, 2 % blue 4535 Schulman)
PE film (83% FT5236 Borealis, 15% 310^E DOW)
Remark: The blue colored film has been tested but this certificate is applicable to both films.

Conditions of use: Intended for use in contact with all types of foodstuffs at room temperature or below for an unspecified period.

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Test performed:

- Overall migration with 3 % acetic acid, 10 % ethanol and olive oil, during 10 days at 40 °C, according to method EN 1186-4 and EN 1186-5 and the basic rules as laid down in the directive 97/48/EC and directive 85/572/EEC , see test report PS 2010-0276, appendix 1.
- Specific migration of octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (CAS 2082-79-3, SML= 6 mg/kg) with 3 % acetic acid and iso-octane, during 10 days at 40 °C, according to method EN 13130-1 and has been analyzed with GC-MS.
Testing with 10 % ethanol is not required because test results of the overall migration of this material with 10 % ethanol exclude that the migration of octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate will be higher than the SML (6 mg/kg), see test report PS 2010-0276.
Results specific migration, see test report PS 2010-0379, appendix 2.

Refer to compliance references:

This section is based on supplied information by the manufacturers.

References	Comments
Polyethylene FT5236	Statement on compliance to food contact regulations supplied by Borealis December 11 th , 2006 states to fulfill the requirements on materials used for articles or components of articles intended to come into contact with food. The product contains octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate which is regulated with a specific migration limit in EU and Switzerland.
DOW LDPE 310 ^E (15 %)	The composition of the DOW LDPE 310 ^E supplied by Dow Europe GmbH February 22, 2010 complies with the requirements for use in contact with food.
Polybatch TM COLOR Blue 4535	The components of the product Polybatch TM COLOR Blue 4535 supplied by A. Schulman March 30, 2010 fulfill the requirements on products intended for use in contact with food.

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Compliance statement:

The statements from the suppliers of the 3 separate layers of film confirm compositional compliance with the applicable regulations.

The test results indicate that the film passes the European overall migration and specific migration of octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate under the mentioned conditions of use.

Based on the results of this investigation together with the statements from the suppliers, we conclude that there is evidence that the tested material does not contravene the frame work Directive 1935/2004, when in contact with all types of foodstuffs at room temperature or below for an unspecified period.

This Certificate of Conformity relies on the product recipe disclosed to Intertek Polychemlab, the performed migration and/or extraction tests and the compliance statements submitted by the raw material producers.

This Certificate of Conformity and the above mentioned test report are limited to the tested samples and do not represent a generally applicable statement on the quality of the continuous production. Any change in the recipe, the raw materials, the production process or the intended use of the above mentioned product can have an impact on the food contact compliance. This certificate is valid as long as no major changes in the relevant regulations occur.

Intertek Polychemlab

25-05-2010

Daisy de Klein
Consultant Packaging Services
Intertek Polychemlab BV
The Netherlands

Intertek Polychemlab BV

TEST REPORT

Requested by:

Conpax
Attn. I
Waalbaandijk 165
6850 AC Druen

Subject: Determination of overall migration on PE film.

Dear Mrs [redacted],

Hereby I present to you the results of the laboratory investigation, that was carried out by your request (ref. BD 2010-8077).

Hoping this information will meet your approval,

Yours sincerely,

Intertek Polychemlab

Nadine Thomis
Senior consultant Packaging Services

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Intertek Polychemlab BV, Koolwaterstofstraat 1, 6161 RA Geleen, The Netherlands - PO Box 606, 6160 AP Geleen, The Netherlands
Telephone: +31 (0)46 476 2713 Fax: +31 (0)46 476 4228 Chamber of Commerce Limburg nr. 24 39 55 64 BTW nr. NL815792402.B01
Web: www.intertek.com

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Intertek Polychemlab BV

KvK Rotterdam nr. 24 39 55 64 BTW nr. NL815792402.B01
Koolwaterstofstraat 1, 6161 RA Geleen, The Netherlands
PO Box 606, 6160 AP Geleen, The Netherlands
Telephone: +31 46 476 7659 Fax: +31 10 26 44 716 Web: <http://www.intertek.com>
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TEST REPORT

Sample & analysis

Date samples received

16-03-2010

Description of samples:

- PE film (83% FT5236 Borealis, 15% 310^F DOW, 2 % blue 4535 Schulman)
- PE film (83% FT5236 Borealis, 15% 310^F DOW)

Remark : By testing the blue colored film, testing of the transparent film is not required because test results are applicable to both films.

Method(s) applied:

Rules for the overall migration tests lays down in directive 2002/72/EC relating to plastic articles intended to come into contact with food.

Tests for the overall migration are performed according to EN 1186-4 for the determination of the overall migration by testing in a cell with olive oil and according to EN 1196-5 for the determination of the overall migration by testing in a cell with aqueous simulants.

Test conditions :

10 days at 40 °C in a cell.

Simulants : 3 % acetic acid, 10 % ethanol and olive oil

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Web: www.intertek.com

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Koolwaterstofstraat 1, 6161 RA Geleen, The Netherlands
PO Box 606, 6160 AP Geleen, The Netherlands

Telephone: +31 46 476 7659 Fax: +31 10 26 44 716 Web: <http://www.intertek.com>

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TEST REPORT**Results**

Simulant	3 % acetic acid	10 % ethanol	Olive oil
<i>Volume simulant</i>	<i>100 mL</i>	<i>100 mL</i>	<i>100 mL</i>
<i>Contact area</i>	<i>1,9 dm²</i>	<i>1,9 dm²</i>	<i>0,95 dm²</i>
Result 1 (mg/dm ²)	1,1	< 0,5	2,3
Result 2 (mg/dm ²)	1,3	0,5	1,0
Result 3 (mg/dm ²)	1,1	< 0,5	1,2
Result 4 (mg/dm ²)	-	-	1,4
Overall migration (mg/dm²), average	1,2	< 0,5	1,5

Conclusion: The overall migration results of the film are in compliance with the restriction for the OML as laid down in directive EN 2002/72/EC for food contact materials for the test with 3 % acetic acid, 10 % ethanol and olive oil under the above mentioned test conditions.

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KvK Rotterdam nr. 24 39 55 64 BTW nr. NL815792402.B01
Koolwaterstofstraat 1, 6161 RA Geleen, The Netherlands
PO Box 606, 6160 AP Geleen, The Netherlands
Telephone: +31 46 476 7659 Fax: +31 10 26 44 716 Web: <http://www.intertek.com>
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TEST REPORT

Requested by:

Compax
Attn. Mrs.
Waalbaandijk 165
6650 AC Druten

Subject: Determination of specific migration of octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate on PE film.

Dear Mrs. _____,

Hereby I present to you the results of the laboratory investigation, that was carried out by your request (ref. BD 2010-8125).

Hoping this information will meet your approval.

Yours sincerely,

Intertek Polychemlab

Nadine Thomis
Senior consultant Packaging Services

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Intertek Polychemlab BV, Koolwaterstofstraat 1, 0101 RA Geleen, The Netherlands - PO Box 606, 6100 AP Geleen, The Netherlands
Telephone: +31 (0)46 476 2713 Fax: +31 (0)46 476 4228 Chamber of Commerce Limburg nr. 24 39 55 34 BTW nr. NL815792402.B01
Web: www.intertek.com

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TEST REPORT**Sample & analysis**Date samples received

16-03-2010

Description of samples:

- PE film (83% FT5236 Borealis, 15% 310^F DOW, 2 % blue 4535 Schulman)
- PE film (83% FT5236 Borealis, 15% 310^F DOW)

Remark : By testing the blue colored film, testing of the transparent film is not required because test results are applicable to both films.

Method(s) applied:

Specific migration of octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (CAS 2082-79-3), SML= 6 mg/kg :

Rules for the specific migration tests lays down in method EN 13130 ; *Guide to test methods for the specific migration of substances from plastics to foods and food simulants and the determination of substances in plastics and the selection of conditions of exposure to food simulants.*

Tests are performed in a cell with 3 % acetic acid and iso-octane as substitute simulant because testing with olive oil is technical not feasible.

Testing with 10 % ethanol is not required because test results of the overall migration of this material with 10 % ethanol exclude that the migration of octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate will be higher than the SML (6 mg/kg), see test report PS 2010-0276.

Test conditions :

10 days at 40 °C in a cell.

Simulants : 3 % acetic acid and Iso-octane.

Analysis of octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (CAS 2082-79-3) is performed by GC-MS.

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Koolwaterstofstraat 1, 6161 RA Geleen, The Netherlands
PO Box 606, 6160 AP Geleen, The Netherlands

Telephone: +31 46 476 7659 Fax: +31 10 26 44 716 Web: <http://www.intertek.com>

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TEST REPORT**Results**

Simulant	3 % acetic acid	Iso-octane
<i>Volume simulant</i>	<i>100 mL</i>	<i>100 mL</i>
<i>Contact area</i>	<i>1,9 dm²</i>	<i>1,9 dm²</i>
Result 1 (mg/kg)	< 1 mg/kg	< 1 mg/kg
Result 2 (mg/kg)	< 1 mg/kg	< 1 mg/kg
Result 3 (mg/kg)	< 1 mg/kg	< 1 mg/kg
<i>Specific migration of octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)proprionate (mg/kg²), average</i>	< 1 mg/kg	< 1 mg/kg

Conclusion: The results of the specific migration of octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)proprionate of the film are in compliance with the restrictions for the SML as laid down in directive EN 2002/72/EC for food contact materials for the test with 3 % acetic acid, 10 % ethanol and iso-octane (as substitute for olive oil) under the above mentioned test conditions.

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Web: www.intertek.com

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KvK Rotterdam nr. 24 39 55 64 BTW nr. NL815792402.B01
Koolwaterstofstraat 1, 6161 RA Geleen, The Netherlands
PO Box 606, 6160 AP Geleen, The Netherlands
Telephone: +31 46 476 7659 Fax: +31 10 26 44 716 Web: <http://www.intertek.com>
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