

Customer details: Allied International Trading Ltd  
Unit 3 Rabone Park  
Off Rabone Lane  
Smethwick  
West Midlands  
B66 2NN

SATRA reference: CHM0245118/1616/EN  
/C/Issue 2

Your reference:

Date of report: 10<sup>th</sup> August 2016

Samples received: 19<sup>th</sup> April 2016

Date(s) work carried out: 2<sup>nd</sup> to 8<sup>th</sup> August 2016

For the attention of: Sangeeta Aeri

## TECHNICAL REPORT

Subject:

Overall migration testing in accordance with BS EN 1186:2002 and EU commission regulation 10/2011 on samples described as PE material-blue.

This report replaces CHM0245118/1616/EN/C issued on the 9<sup>th</sup> August 2016.

### Conditions of Issue:

This report may be forwarded to other parties provided that it is not changed in any way. It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

Tests marked  $\neq$  fall outside the UKAS Accreditation Schedule for SATRA. All interpretations of results of such tests and the comments based upon them are outside the scope of UKAS accreditation and are based on current SATRA knowledge.

**A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.**

Please note uncertainty of measurement has not been applied to the results in this report. SATRA uncertainty of measurement values are available on request.

Report signed by: Emma Norris  
Position: Chemical Technologist  
Department: Chemical & Analytical Technology

## WORK REQUESTED:

Samples described as PE material-blue were received on the 19<sup>th</sup> April 2016 for assessment in accordance with the overall migration limit requirements of Commission Regulation No. 10/2011.

## CONCLUSIONS:

When tested in accordance with BS EN 1186-3: 2002 the samples described as PE material-blue were found to meet with the overall migration limit requirements when assessed against 10% ethanol, 3% acetic acid and 20% ethanol for 1 hour at 40°C.

Results are given in the following table.

## TESTING REQUIRED:

- BS EN 1186 part 3: 2002 Materials and articles in contact with foodstuffs – Plastics Test methods for overall migration into aqueous food simulants by total immersion for 1 hour at 40°C.
  - 10% Ethanol (simulant A Commission Regulation No. 10/2011)
  - 3% Acetic Acid (simulant B in Commission Regulation No. 10/2011)
  - 20% Ethanol (simulant C in Commission Regulation No. 10/2011)

## RESULTS AND REQUIREMENTS:

### Migration into aqueous food simulants by total immersion

Sample	Test Method	Global migration (mg/dm <sup>2</sup> )	Mean Global migration (mg/dm <sup>2</sup> )	Pass/Fail	
PE material-blue	BS EN 1186-9 (10% ethanol)	A	< 1.0	Pass	
		B	< 1.0		
		C	1.3		
	BS EN 1186-9 (3% acetic acid)	A	< 1.0	< 1.0	Pass
		B	< 1.0		
		C	< 1.0		
	BS EN 1186-9 (20% ethanol)	A	1.2	< 1.0	Pass
		B	< 1.0		
		C	1.0		
<b>Requirement</b>	-	-	<b>&lt;10 mg/dm<sup>2</sup></b>	-	

**APPENDICES:**



Samples described as PE material-blue

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The samples described as PE material-blue are suitable for contact with the following food categories of foodstuffs as listed in 10/2011 Annex III, table 2.

Reference number	Description of foodstuffs
01	<b>Beverages</b>
01.01	Non-alcoholic beverages or alcoholic beverages of an alcoholic strength lower than or equal to 6% vol: A. Clear drinks: water, ciders, clear fruit or vegetable juices of normal strength or concentrated, fruit nectars, lemonades, syrups, bitters, infusions, coffee, tea, beers, soft drinks, energy drinks and the like, flavoured water, liquid coffee extract B. cloudy drinks: Juices and nectars and soft drinks containing fruit pulp, musts containing fruit pulp, liquid chocolate
01.02	Alcoholic beverages of an alcoholic strength of between 6% vol and 20%.
03	<b>Chocolate, sugar and products thereof confectionery products</b>
03.02	Confectionery products: B. In paste form: II. Moist
03.03	Sugar and sugar products B. Molasses, sugar syrups, honey and the like
04	<b>Fruit, vegetables and products thereof</b>
04.01	Whole fruit fresh or chilled, unpeeled
04.02	Processed fruit: B. Fruit in the form of puree, preserves, pastes or in its own juice or in sugar syrup (jams, compote, and similar products)
04.04	Whole vegetables, fresh or chilled
04.05	Processed vegetables: B. Fresh vegetables, peeled or cut C. Vegetables in the form of puree, preserves, pastes or in its own juice (including pickled and in brine)
06	<b>Animal products and eggs</b>
06.01	B. Preserved fish: II. In an aqueous medium
06.02	Crustaceans and molluscs (including oysters, mussels, snails): A. Fresh within the shell B. Shell removed, processed, preserved or cooked with the shell II. In an aqueous medium
08	<b>Miscellaneous Products</b>

08.01	Vinegar
08.03	Preparations for soups, broths, sauces, in liquid, solid or powder form (extracts, concentrates); homogenised composite food preparations, prepared dishes including yeast and raising agents: B. Any other form than powdered or dried: II. Other
08.04	Sauces: A. With aqueous character
08.07	Ice creams

# TECHNOLOGY



## TERMS AND CONDITIONS OF BUSINESS

1. **GENERAL**  
Work done or services undertaken are subject to the terms and conditions detailed below and all other conditions, warranties and representations, expressed or implied are hereby excluded.
2. **PRICES**  
Prices are based on current material and production costs, exchange rates, duty and freight and are subject to change without notice.
3. **DELIVERY ESTIMATES**  
Delivery estimates are made in good faith and date from receipt of a written order and full information to enable us to proceed. While SATRA or its subsidiaries (hereafter referred to as "SATRA") make every effort to fulfil them, such estimates are subject to unforeseen events and if not maintained, cannot give rise to any claim. Offers "ex stock" are subject to prior sale.
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  - ii. Where SATRA has given consent to disclosure, the Customer shall draw the attention of the third party to these terms of business and the basis on which SATRA undertakes test, reporting and advising. The Customer shall indemnify SATRA for any failure to do so.
  - iii. The above items are submitted to the Customer as confidential documents. Confidentiality shall continue to apply after completion of the business, but shall cease to apply to information or knowledge which may come into the public domain.
13. **CONSTRUCTION AND ARBITRATION**  
The laws of England shall govern all contracts and the parties submit to exclusive jurisdiction of the courts of England, unless otherwise agreed.

Issue Date: 1st October 2009

Signed:



oms

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Date(s) work carried out: 2<sup>nd</sup> to 8<sup>th</sup> August 2016

For the attention of: Sangeeta Aeri

## TECHNICAL REPORT

Subject:

Overall migration testing in accordance with BS EN 1186:2002 and EU commission regulation 10/2011 on samples described as PE material-green.

This report replaces CHM0245118/1616/EN/B issued on the 9<sup>th</sup> August 2016.

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Report signed by: Emma Norris  
Position: Chemical Technologist  
Department: Chemical & Analytical Technology



## WORK REQUESTED:

Samples described as PE material-green were received on the 19<sup>th</sup> April 2016 for assessment in accordance with the overall migration limit requirements of Commission Regulation No. 10/2011.

## CONCLUSIONS:

When tested in accordance with BS EN 1186-3: 2002 the samples described as PE material-green were found to meet with the overall migration limit requirements when assessed against 10% ethanol, 3% acetic acid and 20% ethanol for 1 hour at 40°C.

Results are given in the following table.

## TESTING REQUIRED:

- BS EN 1186 part 3: 2002 Materials and articles in contact with foodstuffs – Plastics Test methods for overall migration into aqueous food simulants by total immersion for 1 hour at 40°C.
  - 10% Ethanol (simulant A Commission Regulation No. 10/2011)
  - 3% Acetic Acid (simulant B in Commission Regulation No. 10/2011)
  - 20% Ethanol (simulant C in Commission Regulation No. 10/2011)

## RESULTS AND REQUIREMENTS:

### Migration into aqueous food simulants by total immersion

Sample	Test Method	Global migration (mg/dm <sup>2</sup> )		Mean Global migration (mg/dm <sup>2</sup> )	Pass/Fail
		A	B		
PE material-green	BS EN 1186-9 (10% ethanol)	A	7.8	6.3	Pass
		B	5.3		
		C	5.7		
	BS EN 1186-9 (3% acetic acid)	A	1.6	1.0	Pass
		B	1.2		
		C	<1.0		
	BS EN 1186-9 (20% ethanol)	A	3.4	2.6	Pass
		B	2.1		
		C	2.4		
<b>Requirement</b>	-	-	-	<b>&lt;10 mg/dm<sup>2</sup></b>	-



**APPENDICES:**



Samples described as PE material-green

The samples described as PE material-green are suitable for contact with the following food categories of foodstuffs as listed in 10/2011 Annex III, table 2.

Reference number	Description of foodstuffs
01	<b>Beverages</b>
01.01	Non-alcoholic beverages or alcoholic beverages of an alcoholic strength lower than or equal to 6% vol: A. Clear drinks: water, ciders, clear fruit or vegetable juices of normal strength or concentrated, fruit nectars, lemonades, syrups, bitters, infusions, coffee, tea, beers, soft drinks, energy drinks and the like, flavoured water, liquid coffee extract B. cloudy drinks: Juices and nectars and soft drinks containing fruit pulp, musts containing fruit pulp, liquid chocolate
01.02	Alcoholic beverages of an alcoholic strength of between 6% vol and 20%.
03	<b>Chocolate, sugar and products thereof confectionery products</b>
03.02	Confectionery products: B. In paste form: II. Moist
03.03	Sugar and sugar products B. Molasses, sugar syrups, honey and the like
04	<b>Fruit, vegetables and products thereof</b>
04.01	Whole fruit fresh or chilled, unpeeled
04.02	Processed fruit: B. Fruit in the form of puree, preserves, pastes or in its own juice or in sugar syrup (jams, compote, and similar products)
04.04	Whole vegetables, fresh or chilled
04.05	Processed vegetables: B. Fresh vegetables, peeled or cut C. Vegetables in the form of puree, preserves, pastes or in its own juice (including pickled and in brine)
06	<b>Animal products and eggs</b>
06.01	B. Preserved fish: II. In an aqueous medium
06.02	Crustaceans and molluscs (including oysters, mussels, snails): A. Fresh within the shell B. Shell removed, processed, preserved or cooked with the shell II. In an aqueous medium
08	<b>Miscellaneous Products</b>

08.01	Vinegar
08.03	Preparations for soups, broths, sauces, in liquid, solid or powder form (extracts, concentrates); homogenised composite food preparations, prepared dishes including yeast and raising agents: B. Any other form than powdered or dried: II. Other
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# TECHNOLOGY



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The laws of England shall govern all contracts and the parties submit to exclusive jurisdiction of the courts of England, unless otherwise agreed.

Issue Date: 1st October 2009

Signed:



oms

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SATRA reference: CHM0245118/1616/EN  
/A/Issue 2

Your reference:

Date of report: 10<sup>th</sup> August 2016

Samples received: 19<sup>th</sup> April 2016

Date(s) work carried out: 2<sup>nd</sup> to 8<sup>th</sup> August 2016

For the attention of: Sangeeta Aeri

## TECHNICAL REPORT

Subject:

Overall migration testing in accordance with BS EN 1186:2002 and EU commission regulation 10/2011 on samples described as PE material-red.

This report replaces CHM0245118/1616/EN/A issued on the 9<sup>th</sup> August 2016.

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Please note uncertainty of measurement has not been applied to the results in this report. SATRA uncertainty of measurement values are available on request.

Report signed by: Emma Norris  
Position: Chemical Technologist  
Department: Chemical & Analytical Technology

## WORK REQUESTED:

Samples described as PE material-red were received on the 19<sup>th</sup> April 2016 for assessment in accordance with the overall migration limit requirements of Commission Regulation No. 10/2011.

## CONCLUSIONS:

When tested in accordance with BS EN 1186-3: 2002 the samples described as PE material-red were found to meet with the overall migration limit requirements when assessed against 10% ethanol, 3% acetic acid and 20% ethanol for 1 hour at 40°C.

Results are given in the following table.

## TESTING REQUIRED:

- BS EN 1186 part 3: 2002 Materials and articles in contact with foodstuffs – Plastics Test methods for overall migration into aqueous food simulants by total immersion for 1 hour at 40°C.
  - 10% Ethanol (simulant A Commission Regulation No. 10/2011)
  - 3% Acetic Acid (simulant B in Commission Regulation No. 10/2011)
  - 20% Ethanol (simulant C in Commission Regulation No. 10/2011)

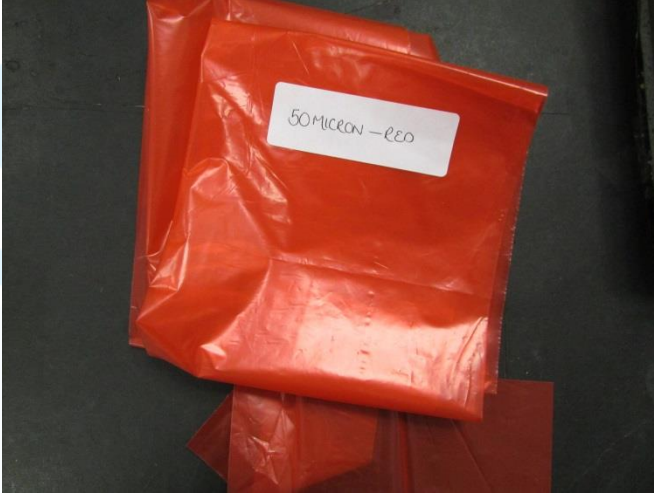
## RESULTS AND REQUIREMENTS:

### Migration into aqueous food simulants by total immersion

Sample	Test Method	Global migration (mg/dm <sup>2</sup> )	Mean Global migration (mg/dm <sup>2</sup> )	Pass/Fail	
PE material-red	BS EN 1186-9 (10% ethanol)	A	3.3	3.4	Pass
		B	4.0		
		C	2.8		
	BS EN 1186-9 (3% acetic acid)	A	2.1	2.0	Pass
		B	2.5		
		C	1.3		
	BS EN 1186-9 (20% ethanol)	A	1.8	2.0	Pass
		B	3.4		
		C	<1.0		
<b>Requirement</b>	-	-	<b>&lt;10 mg/dm<sup>2</sup></b>	-	



**APPENDICES:**



Samples described as PE material-red

The samples described as PE material-red are suitable for contact with the following food categories of foodstuffs as listed in 10/2011 Annex III, table 2.

Reference number	Description of foodstuffs
01	<b>Beverages</b>
01.01	Non-alcoholic beverages or alcoholic beverages of an alcoholic strength lower than or equal to 6% vol: A. Clear drinks: water, ciders, clear fruit or vegetable juices of normal strength or concentrated, fruit nectars, lemonades, syrups, bitters, infusions, coffee, tea, beers, soft drinks, energy drinks and the like, flavoured water, liquid coffee extract B. cloudy drinks: Juices and nectars and soft drinks containing fruit pulp, musts containing fruit pulp, liquid chocolate
01.02	Alcoholic beverages of an alcoholic strength of between 6% vol and 20%.
03	<b>Chocolate, sugar and products thereof confectionery products</b>
03.02	Confectionery products: B. In paste form: II. Moist
03.03	Sugar and sugar products B. Molasses, sugar syrups, honey and the like
04	<b>Fruit, vegetables and products thereof</b>
04.01	Whole fruit fresh or chilled, unpeeled
04.02	Processed fruit: B. Fruit in the form of puree, preserves, pastes or in its own juice or in sugar syrup (jams, compote, and similar products)
04.04	Whole vegetables, fresh or chilled
04.05	Processed vegetables: B. Fresh vegetables, peeled or cut C. Vegetables in the form of puree, preserves, pastes or in its own juice (including pickled and in brine)
06	<b>Animal products and eggs</b>
06.01	B. Preserved fish: II. In an aqueous medium
06.02	Crustaceans and molluscs (including oysters, mussels, snails): A. Fresh within the shell B. Shell removed, processed, preserved or cooked with the shell II. In an aqueous medium
08	<b>Miscellaneous Products</b>

08.01	Vinegar
08.03	Preparations for soups, broths, sauces, in liquid, solid or powder form (extracts, concentrates); homogenised composite food preparations, prepared dishes including yeast and raising agents: B. Any other form than powdered or dried: II. Other
08.04	Sauces: A. With aqueous character
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TECHNOLOGY



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West Midlands  
B66 2NN

SATRA reference: CHM0245118/1616/EN  
/E

Your reference:

Date of report: 10<sup>th</sup> August 2016

Samples received: 19<sup>th</sup> April 2016

Date(s) work carried out: 2<sup>nd</sup> to 9<sup>th</sup> August 2016

For the attention of: Sangeeta Aeri

## TECHNICAL REPORT

Subject: Overall migration testing in accordance with BS EN 1186:2002 and EU commission regulation 10/2011 on samples described as PE material-white.

### Conditions of Issue:

This report may be forwarded to other parties provided that it is not changed in any way. It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

Tests marked  $\neq$  fall outside the UKAS Accreditation Schedule for SATRA. All interpretations of results of such tests and the comments based upon them are outside the scope of UKAS accreditation and are based on current SATRA knowledge.

**A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.**

Please note uncertainty of measurement has not been applied to the results in this report. SATRA uncertainty of measurement values are available on request.

Report signed by: Emma Norris  
Position: Chemical Technologist  
Department: Chemical & Analytical Technology



## WORK REQUESTED:

Samples described as PE material-white were received on the 19<sup>th</sup> April 2016 for assessment in accordance with the overall migration limit requirements of Commission Regulation No. 10/2011.

## CONCLUSIONS:

When tested in accordance with BS EN 1186-3: 2002 the samples described as PE material-white were found to meet with the overall migration limit requirements when assessed against 10% ethanol, 3% acetic acid and 20% ethanol for 1 hour at 40°C.

Results are given in the following table.

## TESTING REQUIRED:

- BS EN 1186 part 3: 2002 Materials and articles in contact with foodstuffs – Plastics Test methods for overall migration into aqueous food simulants by total immersion for 1 hour at 40°C.
  - 10% Ethanol (simulant A Commission Regulation No. 10/2011)
  - 3% Acetic Acid (simulant B in Commission Regulation No. 10/2011)
  - 20% Ethanol (simulant C in Commission Regulation No. 10/2011)

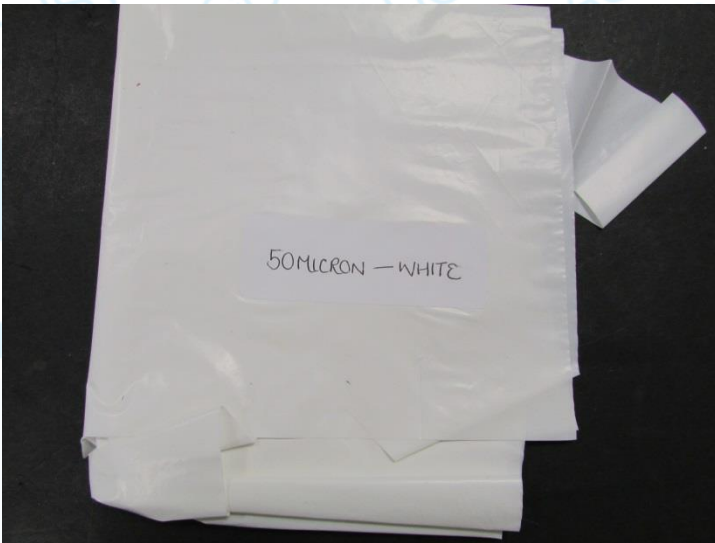
## RESULTS AND REQUIREMENTS:

### Migration into aqueous food simulants by total immersion

Sample	Test Method	Global migration (mg/dm <sup>2</sup> )	Mean Global migration (mg/dm <sup>2</sup> )	Pass/Fail	
PE material-white	BS EN 1186-9 (10% ethanol)	A	< 1.0	Pass	
		B	< 1.0		
		C	< 1.0		
	BS EN 1186-9 (3% acetic acid)	A	< 1.0	< 1.0	Pass
		B	< 1.0		
		C	< 1.0		
	BS EN 1186-9 (20% ethanol)	A	2.1	1.0	Pass
		B	< 1.0		
		C	< 1.0		
<b>Requirement</b>	-	-	<b>&lt;10 mg/dm<sup>2</sup></b>	-	

## APPENDICES:





Samples described as PE material-white

The samples described as PE material-white are suitable for contact with the following food categories of foodstuffs as listed in 10/2011 Annex III, table 2.

Allied International Trading Ltd  
SATRA Reference: CHM0245118/1616/EN/E  
Date: 10<sup>th</sup> August 2016

Signed:



oms

Reference number	Description of foodstuffs
01	<b>Beverages</b>
01.01	Non-alcoholic beverages or alcoholic beverages of an alcoholic strength lower than or equal to 6% vol: A. Clear drinks: water, ciders, clear fruit or vegetable juices of normal strength or concentrated, fruit nectars, lemonades, syrups, bitters, infusions, coffee, tea, beers, soft drinks, energy drinks and the like, flavoured water, liquid coffee extract B. cloudy drinks: Juices and nectars and soft drinks containing fruit pulp, musts containing fruit pulp, liquid chocolate
01.02	Alcoholic beverages of an alcoholic strength of between 6% vol and 20%.
03	<b>Chocolate, sugar and products thereof confectionery products</b>
03.02	Confectionery products: B. In paste form: II. Moist
03.03	Sugar and sugar products B. Molasses, sugar syrups, honey and the like
04	<b>Fruit, vegetables and products thereof</b>
04.01	Whole fruit fresh or chilled, unpeeled
04.02	Processed fruit: B. Fruit in the form of puree, preserves, pastes or in its own juice or in sugar syrup (jams, compote, and similar products)
04.04	Whole vegetables, fresh or chilled
04.05	Processed vegetables: B. Fresh vegetables, peeled or cut C. Vegetables in the form of puree, preserves, pastes or in its own juice (including pickled and in brine)
06	<b>Animal products and eggs</b>
06.01	B. Preserved fish: II. In an aqueous medium
06.02	Crustaceans and molluscs (including oysters, mussels, snails): A. Fresh within the shell B. Shell removed, processed, preserved or cooked with the shell II. In an aqueous medium
08	<b>Miscellaneous Products</b>
08.01	Vinegar

08.03	Preparations for soups, broths, sauces, in liquid, solid or powder form (extracts, concentrates); homogenised composite food preparations, prepared dishes including yeast and raising agents: B. Any other form than powdered or dried: II. Other
08.04	Sauces: A. With aqueous character
08.07	Ice creams

**TECHNOLOGY**



## TERMS AND CONDITIONS OF BUSINESS

1. **GENERAL**  
Work done or services undertaken are subject to the terms and conditions detailed below and all other conditions, warranties and representations, expressed or implied are hereby excluded.
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Prices are based on current material and production costs, exchange rates, duty and freight and are subject to change without notice.
3. **DELIVERY ESTIMATES**  
Delivery estimates are made in good faith and date from receipt of a written order and full information to enable us to proceed. While SATRA or its subsidiaries (hereafter referred to as "SATRA") make every effort to fulfil them, such estimates are subject to unforeseen events and if not maintained, cannot give rise to any claim. Offers "ex stock" are subject to prior sale.
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Cancellation of orders for goods, services, training or consultancy is only acceptable by prior agreement of SATRA and a charge will normally be made.
5. **CLAIMS**  
Claims for errors, shortages etc should be notified within 10 days of date of receipt. In the event of goods damaged in transit, packing materials should be retained for examination; otherwise no liability can be accepted.
6. **PAYMENT TERMS**  
Payment terms are net 21 days from date of invoice. Failure to comply with the terms of payment may result in delayed delivery of goods and services and a review of the Customer's credit account. Should the customer become subject to an administration order, or becomes bankrupt or goes into liquidation, SATRA has a right to cancel any contract and discontinue any work. SATRA reserves the right to adjust US Dollar and Euro sales price where customer exceeds credit terms and where the exchange rate has moved more than 10% since invoicing.
7. **RETENTION OF TITLE**  
All goods remain the property of SATRA until paid in full. Under no circumstances will a customer's purchase order override SATRA's Retention of Title clause. In the case of software, the ownership of the software remains with SATRA. Payment of invoices in full will entitle the customer to use the software under licence until (a) they cease to be a member of SATRA or (b) they cease trading. In both instances, the licence shall then revert to SATRA.
8. **GUARANTEE**  
All goods manufactured by SATRA are guaranteed both as regards material and workmanship. Any part returned carriage paid, within twelve months from date of supply and found defective, will be repaired or replaced at SATRA's option free of charge. SATRA admits no liability for loss, damage or delay consequent on any defect in any goods supplied by SATRA.
9. **TEST REPORTS**  
Results given in test reports refer only to samples submitted for analysis and tested by SATRA. A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the Customer as a result of information supplied in a test report.
10. **TEST SAMPLES**  
Unless otherwise agreed in advance, test samples will be disposed of 6 weeks after the date of the final report. If required, samples can be returned at the Customer's expense.
11. **RESPONSIBILITY**  
Every effort is made to ensure accuracy in description, drawings and other information in correspondence, catalogues, etc but no warranty is given in this respect and SATRA shall not be liable for any error therein. SATRA carries out all tests and/or advises only on the basis that the same are carried out, made or given without any responsibility whether for negligence or otherwise. SATRA and its servants or agents will not be liable for any damage or loss direct or indirect of whatsoever kind, whether or not the same results directly or indirectly from negligence on the part of SATRA or its servants or agents.
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Unless specifically excluded in the terms of an individual contract between SATRA and its Customer, the following shall apply to all reports, advice, drawings, photographs, specifications or data:
  - i. The above shall not be disclosed to third parties or used in litigation without the consent of SATRA.
  - ii. Where SATRA has given consent to disclosure, the Customer shall draw the attention of the third party to these terms of business and the basis on which SATRA undertakes test, reporting and advising. The Customer shall indemnify SATRA for any failure to do so.
  - iii. The above items are submitted to the Customer as confidential documents. Confidentiality shall continue to apply after completion of the business, but shall cease to apply to information or knowledge which may come into the public domain.
13. **CONSTRUCTION AND ARBITRATION**  
The laws of England shall govern all contracts and the parties submit to exclusive jurisdiction of the courts of England, unless otherwise agreed.

Issue Date: 1st October 2009

Customer details: Allied International Trading Ltd  
Unit 3 Rabone Park  
Off Rabone Lane  
Smethwick  
West Midlands  
B66 2NN

SATRA reference: CHM0245118/1616/EN  
/D

Your reference:

Date of report: 10<sup>th</sup> August 2016

Samples received: 19<sup>th</sup> April 2016

Date(s) work carried out: 2<sup>nd</sup> to 9<sup>th</sup> August 2016

For the attention of: Sangeeta Aeri

## TECHNICAL REPORT

Subject: Overall migration testing in accordance with BS EN 1186:2002 and EU  
commission regulation 10/2011 on samples described as PE material-yellow.

### Conditions of Issue:

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Please note uncertainty of measurement has not been applied to the results in this report. SATRA uncertainty of measurement values are available on request.

Report signed by: Emma Norris  
Position: Chemical Technologist  
Department: Chemical & Analytical Technology



## WORK REQUESTED:

Samples described as PE material-yellow were received on the 19<sup>th</sup> April 2016 for assessment in accordance with the overall migration limit requirements of Commission Regulation No. 10/2011.

## CONCLUSIONS:

When tested in accordance with BS EN 1186-3: 2002 the samples described as PE material-yellow were found to meet with the overall migration limit requirements when assessed against 10% ethanol, 3% acetic acid and 20% ethanol for 1 hour at 40°C.

Results are given in the following table.

## TESTING REQUIRED:

- BS EN 1186 part 3: 2002 Materials and articles in contact with foodstuffs – Plastics Test methods for overall migration into aqueous food simulants by total immersion for 1 hour at 40°C.
  - 10% Ethanol (simulant A Commission Regulation No. 10/2011)
  - 3% Acetic Acid (simulant B in Commission Regulation No. 10/2011)
  - 20% Ethanol (simulant C in Commission Regulation No. 10/2011)

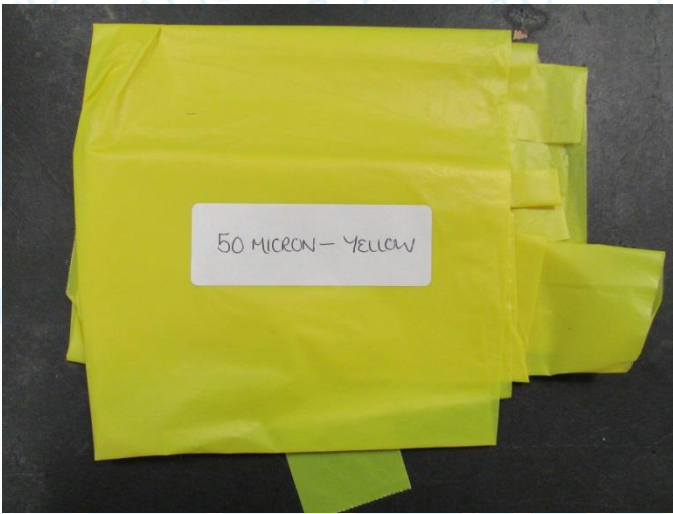
## RESULTS AND REQUIREMENTS:

### Migration into aqueous food simulants by total immersion

Sample	Test Method	Global migration (mg/dm <sup>2</sup> )	Mean Global migration (mg/dm <sup>2</sup> )	Pass/Fail	
PE material-yellow	BS EN 1186-9 (10% ethanol)	A	< 1.0	Pass	
		B	< 1.0		
		C	< 1.0		
	BS EN 1186-9 (3% acetic acid)	A	< 1.0	< 1.0	Pass
		B	< 1.0		
		C	< 1.0		
	BS EN 1186-9 (20% ethanol)	A	3.8	2.9	Pass
		B	1.4		
		C	3.4		
<b>Requirement</b>	-	-	<b>&lt;10 mg/dm<sup>2</sup></b>	-	

## APPENDICES:





Samples described as PE Over sleeves (yellow)

The samples described as PE material-yellow are suitable for contact with the following food categories of foodstuffs as listed in 10/2011 Annex III, table 2.

Allied International Trading Ltd  
SATRA Reference: CHM0245118/1616/EN/D  
Date: 10<sup>th</sup> August 2016

Signed:



Reference number	Description of foodstuffs
01	<b>Beverages</b>
01.01	Non-alcoholic beverages or alcoholic beverages of an alcoholic strength lower than or equal to 6% vol: A. Clear drinks: water, ciders, clear fruit or vegetable juices of normal strength or concentrated, fruit nectars, lemonades, syrups, bitters, infusions, coffee, tea, beers, soft drinks, energy drinks and the like, flavoured water, liquid coffee extract B. cloudy drinks: Juices and nectars and soft drinks containing fruit pulp, musts containing fruit pulp, liquid chocolate
01.02	Alcoholic beverages of an alcoholic strength of between 6% vol and 20%.
03	<b>Chocolate, sugar and products thereof confectionery products</b>
03.02	Confectionery products: B. In paste form: II. Moist
03.03	Sugar and sugar products B. Molasses, sugar syrups, honey and the like
04	<b>Fruit, vegetables and products thereof</b>
04.01	Whole fruit fresh or chilled, unpeeled
04.02	Processed fruit: B. Fruit in the form of puree, preserves, pastes or in its own juice or in sugar syrup (jams, compote, and similar products)
04.04	Whole vegetables, fresh or chilled
04.05	Processed vegetables: B. Fresh vegetables, peeled or cut C. Vegetables in the form of puree, preserves, pastes or in its own juice (including pickled and in brine)
06	<b>Animal products and eggs</b>
06.01	B. Preserved fish: II. In an aqueous medium
06.02	Crustaceans and molluscs (including oysters, mussels, snails): A. Fresh within the shell B. Shell removed, processed, preserved or cooked with the shell II. In an aqueous medium
08	<b>Miscellaneous Products</b>
08.01	Vinegar

08.03	Preparations for soups, broths, sauces, in liquid, solid or powder form (extracts, concentrates); homogenised composite food preparations, prepared dishes including yeast and raising agents: B. Any other form than powdered or dried: II. Other
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**TECHNOLOGY**



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Issue Date: 1st October 2009