

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

SATRA reference: CHM0252979/1651/CL
/D

Your reference:

Date of report: 8th February 2017

Samples received: 19th December 2016

For the attention of: Sangeeta Aeri

Date(s) work carried out: 3rd to 6th February
2017

TECHNICAL REPORT

Subject:

Overall migration testing in accordance with BS EN 1186:2002 and EU
commission regulation 10/2011 on samples of gloves described as Vinyl gloves

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 It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.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.

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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: Charlotte Lovell
Position: Chemical Technologist
Department: Chemical & Analytical Technology



WORK REQUESTED:

Samples of gloves described as Vinyl gloves (11011, 11012, 11013, 11014, 11021, 11022, 11023, 11024, 11031, 11032, 11033, 11034, 11041, 11042, 11043, 11044, 11301, 11302, 11303, 11304, 11101, 11102, 11103, 11104, 11211, 11212, 11213, 11214, 11401, 11402, 11403, 11404, 11201, 11202, 11203 and 11204) were received on the 19th December 2016 for assessment in accordance with the overall migration limit requirements of Commission Regulation No. 10/2011.

MATERIALS TESTED:

- Industrial powdered vinyl blue
- Industrial powdered vinyl red
- Industrial powdered vinyl green
- Industrial powdered vinyl yellow
- Medical powdered vinyl clear
- Industrial powdered vinyl clear
- Industrial powder free vinyl blue
- Medical powder free vinyl clear
- Industrial powder free vinyl clear

It was requested from the customer to combine samples within the triplicate testing across the simulants

CONCLUSIONS:

When tested in accordance with BS EN 1186-5: 2002 the samples described as Vinyl gloves were found to meet with the overall migration limit requirements when assessed against 10% Ethanol, 3% acetic acid and 20% Ethanol for 30 minutes at 40 °C.

Results are given in the following tables.

TESTING REQUIRED:

- BS EN 1186 part 5: 2002 Materials and articles in contact with foodstuffs – Plastics Test methods for overall migration into aqueous food simulants by cell method for 30 minutes 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 cell method

Sample	Test Method	Global migration (mg/dm ²)		Mean Global migration (mg/dm ²)	Pass/Fail
Vinyl gloves	BS EN 1186-5 (3% Acetic acid)	A	4.7	2.5	Pass
		B	1.5		
		C	1.4		
	BS EN 1186-5 (10% Ethanol)	D	1.4	<1.0	Pass
		E	<1.0		
		F	<1.0		
	BS EN 1186-5 (20% Ethanol)	G	<1.0	<1.0	Pass
		H	<1.0		
		I	1.0		
Requirement	-	-	<10 mg/dm²	-	

- A. Industrial powdered vinyl blue
- B. Industrial powdered vinyl red
- C. Industrial powdered vinyl green
- D. Industrial powdered vinyl yellow
- E. Medical powdered vinyl clear
- F. Industrial powdered vinyl clear
- G. Industrial powder free vinyl blue
- H. Medical powder free vinyl clear
- I. Industrial powder free vinyl clear

APPENDICES:

The samples described as Vinyl gloves 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	Beverages
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	Chocolate, sugar and products thereof confectionery products
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	Fruit, vegetables and products thereof
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	Animal products and eggs
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	Miscellaneous Products
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



Samples of gloves described as Industrial powdered vinyl blue



Samples of gloves described as Industrial powdered vinyl red



Samples of gloves described as Industrial powdered vinyl green



Samples of gloves described as Industrial powdered vinyl yellow



Samples of gloves described as Medical powdered vinyl clear



Samples of gloves described as Industrial powdered vinyl clear



Samples of gloves described as Industrial powder free vinyl blue



Samples of gloves described as Medical powder free vinyl clear



Samples of gloves described as Industrial powder free vinyl clear

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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