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SATRA reference: CHM0252979/1651/CL  
/C

Your reference:

Date of report: 30<sup>th</sup> January 2017

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

For the attention of: Sangeeta Aeri

Date(s) work carried out: 25<sup>th</sup> January to 26<sup>th</sup> January 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 Industrial powder free flexo.

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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 Industrial powder free flexo (11911, 11912, 11913 and 11914) were received on the 19<sup>th</sup> December 2016 for assessment in accordance with the overall migration limit requirements of Commission Regulation No. 10/2011.

## MATERIALS TESTED:

- Industrial powder free flexo

## CONCLUSIONS:

When tested in accordance with BS EN 1186-5: 2002 the sample described as Industrial powder free flexo was 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 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 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 cell method

Sample	Test Method	Global migration (mg/dm <sup>2</sup> )		Mean Global migration (mg/dm <sup>2</sup> )	Pass/Fail
Industrial powder free flexo	BS EN 1186-5 (3% Acetic acid)	A	<1.0	<1.0	Pass
		B	3.6		
		C	<1.0		
	BS EN 1186-5 (10% Ethanol)	A	<1.0	<1.0	Pass
		B	<1.0		
		C	1.2		
	BS EN 1186-5 (20% Ethanol)	A	<1.0	<1.0	Pass
		B	<1.0		
		C	<1.0		
<b>Requirement</b>	-	-		<b>&lt;10 mg/dm<sup>2</sup></b>	-



## APPENDICES:

The samples described as Industrial powder free flexo 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



Samples of gloves described as Industrial powder free flexo



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Issue Date: 1st October 2009