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SATRA reference: CHM0247488/1626/EN
/B/Final

Your reference:

Date of report: 29th July 2016

Samples received: 19th April 2016

Date(s) work carried out: 25th to 27th July 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 of gloves described as Clear PE gloves (13601, 13602, 13603 and 13604).

Conditions of Issue:

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

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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 of gloves described as Clear PE gloves (13601, 13602, 13603 and 13604) were received on the 19th 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 1186-9: 2002 the gloves described as Clear PE gloves (13601, 13602, 13603 and 13604) 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 9: 2002 Materials and articles in contact with foodstuffs – Plastics Test methods for overall migration into aqueous food simulants by article filling (modified) 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 article filling (modified)

The gloves were assessed by reversing the gloves to form a pouch and filling with each simulant. The surface area of each glove was calculated by determining the density of the glove, weighing the part of the glove that was in contact with the simulant and calculating the area assuming a homogeneous material.

Sample	Test Method	Global migration (mg/dm ²)	Mean Global migration (mg/dm ²)	Pass/Fail	
Clear PE gloves	BS EN 1186-9 (10% ethanol)	A	< 1.0	< 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	< 1.0	< 1.0	Pass
		B	< 1.0		
		C	< 1.0		
Requirement	-	-	<10 mg/dm²	-	

APPENDICES:

The gloves described as Clear PE gloves (13601, 13602, 13603 and 13604) 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> B. In paste form: <ul style="list-style-type: none"> II. Moist
03.03	Sugar and sugar products <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> B. Preserved fish: <ul style="list-style-type: none"> II. In an aqueous medium
06.02	Crustaceans and molluscs (including oysters, mussels, snails): <ul style="list-style-type: none"> 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



Gloves described as Clear PE gloves
(13601, 13602, 13603 and 13604)

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Issue Date: 1st October 2009