



Test Report

No. SH9087735/CHEM

Date May 13, 2009

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The following sample(s) was/were submitted and identified by/on behalf of the client as

Sample Name : VINYL GLOVES
SGS Ref No : SHFDO090403617FD
Batch/Date : 2009-4-2
Manufacturer : SUQIAN GREEN GLOVE CO., LTD

Sample Receiving Date : Apr 09, 2009
Testing Period : Apr 09-17, 2009

- Test Requested : (1) To determine the Overall Migration for compliance with European Commission Directive 2007/19/EC (2002/72/EC amendment) relating to plastic materials and articles intended to come into contact with aqueous foodstuff(pH>4.5), acidic foodstuff(pH<4.5), alcoholic foodstuff.
(2) To determine the Specific Migration of Phthalates for compliance with European Commission 2002/72/EC and its amendment 2007/19/EC relating to plastic materials and articles intended to come into contact with acidic foodstuff(pH<4.5)
(3) As per client's request, to determine VCM-vinyl chloride monomer in the submitted sample.

Test Method/Test Results: Please refer to next pages

Conclusion

- (1) When tested as specified, the submitted sample complies with the overall migration requirements stated in European Commission Directive 2007/19/EC (2002/72/EC amendment) relating to plastics materials and articles intended to come into contact with aqueous foodstuff(pH>4.5), acidic foodstuff(pH<4.5), alcoholic foodstuff.
(2) When tested as specified, the test results comply with the specific migration limits of phthalates stated in European Commission Directive 2007/19/EC (amending Directive 2002/72/EC) on Materials and Articles intended to come into contact with acidic foodstuff(pH<4.5)
(3) When tested as specified, the VCM content of the submitted sample complies with the requirement of the EEC directive 78/142/EEC

Signed for and on behalf of
SGS-CSTC Chemical Laboratory

Sandy Hsu

Sandy Hsu
Lab Manager





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Test Method

- (1) With reference to EN1186-1:2002 for selection of conditions and test methods, EN1186-3:2002 aqueous food simulants by total immersion method, EN1186-2:2002 olive oil by total immersion method,
- (2) Sample preparation with reference to EN 13130-1:2004 with selection of stimulant and condition, followed by analysis by GC/MS
- (3) With reference to 78/142/EEC

Test Results

(1) Overall migration in plastic samples

Simulant used	Test condition	Overall Migration (mg/dm ²)	Maximum permissible Limit (mg/dm ²)
		1	
Deionized Water	2hours at 70 °C	<3.0	10
3% Acetic Acid (W/V) Aqueous Solution	2hours at 70 °C	<3.0	10
10% Ethanol (V/V) Aqueous Solution	2hours at 70 °C	<3.0	10

Note

- 1 mg/dm²=milligram per square decimeter
- 2 °C=degree Celsius
- 3 <= less than
- 4 Analytical tolerance of aqueous simulants is 1 mg/dm² or 6mg/kg
- 5 Analytical tolerance of fatty food simulants is 3 mg/dm² or 20mg/kg

(2) Specific Migration of Phthalates

Simulant used 3% Acetic Acid (W/V)

Test condition 70 °C 2hrs

Test Items	CAS No.	MDL (mg/kg)	Specific Migration (mg/kg)	Maximum Permissible Limit (mg/kg)
			1	
Di-n-decyl Phthalate	84-77-5	0.2	ND	(Sum of three) 5
n-decyl n-octyl Phthalate	119-07-3	0.4	ND	
Di-n-octyl Phthalate	117-84-0	0.2	ND	
Di (2-ethylhexyl) Phthalate	117-81-7	0.25	ND	1.5
Dibutyl Phthalate	84-74-2	0.05	ND	0.3
Diisononyl Phthalate	68515-48-0	1.5	ND	9
Disodecyl Phthalate	26761-40-0	1.5	ND	9
Benzylbutyl Phthalate	85-68-7	3	ND	30



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(3)VCM-vinyl chloride monomer (Unit: mg/kg)

Item	Method (refer to)	1	MDL	Limit
VCM(vinyl chloride monomer)	(4)	ND	0.1	1

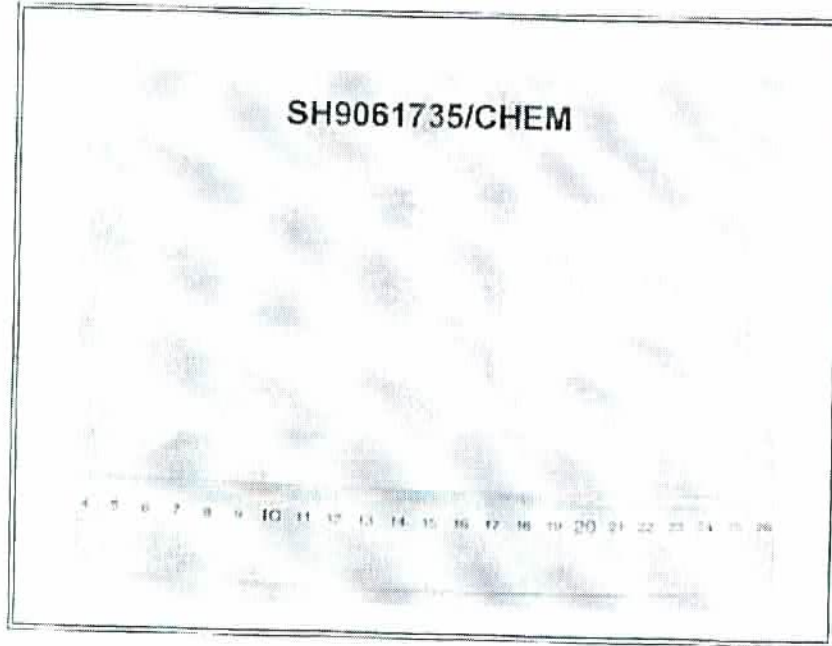
Test Part Description

1 Translucent plastic glove

Note

- (1) ND=Not Detectable (Concentration<MDL)
- (2) MDL=Method Detect Limit
- (3) % = percentage by weight
- (4) = Not Regulated
- (5) < = Less than
- (6) 1mg/kg=1ppm=0.0001%
- (7) The test results are taken from report SH9061735/CHEM, Date 2009/04/17

Sample Photo



SGS authenticate the photo on original report only

*** End of Report ***

