

Test Report

No. TSNEC1801370701

Date: 27 Jul 2018

Page 1 of 3

SHIJIAZHUANG HONGRAY GROUP CO., LTD.
SOUTH TONGDA RD., EAST DIST. JINZHOU CITY, HEBEI
052260, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : DISPOSABLE VINYL GLOVE

SGS Job No. : TP18-005878 - TJ
Date of Sample Received : 18 Jul 2018
Testing Period : 18 Jul 2018 - 27 Jul 2018
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Overall migration	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Reabeca Zhou
Approved Signatory

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SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.
Chemical Laboratory

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Test Report

No. TSNEC1801370701

Date: 27 Jul 2018

Page 2 of 3

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TSN18-013707.001	translucent gloves	PVC

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Overall migration

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine overall migration.

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; or EN 1186-9: 2002 aqueous food simulants by article filling method;

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	11.6mg/dm ²
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	6.7mg/dm ²

Notes :

- (1) mg/dm²=milligram per square decimeter
- (2) °C=degree Celsius
- (3) <= less than
- (4) Analytical tolerance of aqueous simulants is 2 mg/dm².
- (5) Test condition & simulant were specified by client.
- (6) The conclusion of Specimen 001was drawn without considering the expanded uncertainty. It is possible that the tested result of submitted sample is above the limit.



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Test Report

No. TSNEC1801502301

Date: 10 Aug 2018

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SOUTH TONGDA RD., EAST DIST. JINZHOU CITY, HEBEI
052260, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : DISPOSABLE VINYL GLOVE

SGS Job No. : TP18-006595 - TJ
Date of Sample Received : 06 Aug 2018
Testing Period : 06 Aug 2018 - 10 Aug 2018
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Overall migration	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Reabeca Zhou
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TSN18-015023.001	translucent gloves	PVC

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Overall migration

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine overall migration.

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; or EN 1186-9: 2002 aqueous food simulants by article filling method;

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>
20% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²

Notes :

- (1) mg/dm²=milligram per square decimeter
- (2) °C=degree Celsius
- (3) <= less than
- (4) Analytical tolerance of aqueous simulants is 2 mg/dm².
- (5) Test condition & simulant were specified by client.



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Test Report

No. TSNEC1801370708

Date: 27 Jul 2018

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SHIJIAZHUANG HONGRAY GROUP CO., LTD.
SOUTH TONGDA RD., EAST DIST. JINZHOU CITY, HEBEI
052260, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : DISPOSABLE VINYL GLOVE

SGS Job No. : TP18-005878 - TJ
Date of Sample Received : 18 Jul 2018
Testing Period : 18 Jul 2018 - 27 Jul 2018
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Specific migration of phthalate	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Reabeca Zhou
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TSN18-013707.008	translucent gloves	PVC

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Specific migration of phthalate

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments to determine specific migration of phthalates.

Test Method : With reference to EN13130-1: 2004; analysis was performed by GC-MS.

Sample 008

Simulant Used : Isooctane

Test Condition : 40 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	11.2
Benzylbutyl Phthalate(BBP)	30	mg/kg	0.05	ND
Dibutyl Phthalate(DBP)	0.3	mg/kg	0.05	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	1.5	mg/kg	0.05	ND
Diisononyl phthalate + Diisodecyl phthalate (DINP+DIDP)	9.00	mg/kg	0.20	ND
Diallyl Phthalate(DAP)	0.01	mg/kg	0.01	ND

Notes :

- (1) Test condition & simulant were specified by client.



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Test Report

No. TSNEC1801370707

Date: 27 Jul 2018

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SHIJIAZHUANG HONGRAY GROUP CO., LTD.
SOUTH TONGDA RD., EAST DIST. JINZHOU CITY, HEBEI
052260, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : DISPOSABLE VINYL GLOVE

SGS Job No. : TP18-005878 - TJ
Date of Sample Received : 18 Jul 2018
Testing Period : 18 Jul 2018 - 27 Jul 2018
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Specific migration of phthalate	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Reabeca Zhou
Approved Signatory

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Test Report

No. TSNEC1801370707

Date: 27 Jul 2018

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TSN18-013707.007	translucent gloves	PVC

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Specific migration of phthalate

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments to determine specific migration of phthalates.

Test Method : With reference to EN13130-1: 2004; analysis was performed by GC-MS.

Sample 007

Simulant Used : 95% Ethanol (V/V) Aqueous Solution

Test Condition : 60 °C 2.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	11.2
Benzylbutyl Phthalate(BBP)	30	mg/kg	0.05	ND
Dibutyl Phthalate(DBP)	0.3	mg/kg	0.05	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	1.5	mg/kg	0.05	ND
Diisononyl phthalate + Diisodecyl phthalate (DINP+DIDP)	9.00	mg/kg	0.20	ND
Diallyl Phthalate(DAP)	0.01	mg/kg	0.01	ND

Notes :

- (1) Test condition & simulant were specified by client.



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Test Report

No. TSNEC1801370706

Date: 27 Jul 2018

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SOUTH TONGDA RD., EAST DIST. JINZHOU CITY, HEBEI
052260, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : DISPOSABLE VINYL GLOVE

SGS Job No. : TP18-005878 - TJ
Date of Sample Received : 18 Jul 2018
Testing Period : 18 Jul 2018 - 27 Jul 2018
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Phthalates	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Reabeca Zhou
Approved Signatory

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Test Report

No. TSNEC1801370706

Date: 27 Jul 2018

Page 2 of 3

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TSN18-013707.006	translucent gloves	PVC

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Phthalates

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine phthalates.

Test Method : Solvent extraction, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	006
Dibutyl Phthalate (DBP)	84-74-2	0.05	% (w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	0.1	% (w/w)	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	0.1	% (w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0/ 68515-48-0	0.1	% (w/w)	0.01	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/ 68515-49-1	0.1	% (w/w)	0.01	ND



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Test Report

No. TSNEC1801370703

Date: 27 Jul 2018

Page 1 of 3

SHIJIAZHUANG HONGRAY GROUP CO., LTD.
SOUTH TONGDA RD., EAST DIST. JINZHOU CITY, HEBEI
052260, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : DISPOSABLE VINYL GLOVE

SGS Job No. : TP18-005878 - TJ
Date of Sample Received : 18 Jul 2018
Testing Period : 18 Jul 2018 - 27 Jul 2018
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Specific migration of heavy metal	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Reabeca Zhou
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TSN18-013707.003	translucent gloves	PVC

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Specific migration of heavy metal

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine specific migration of heavy metal.

Test Method : With reference to EN13130-1:2004; analysis was performed by ICP-OES.

Sample 003

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 70 °C 2.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	11.2
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	5	mg/kg	0.5	1.3
Aluminium	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND



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Notes :

- (1) MDL = Method Detection Limit
- (2) ND = Not Detected (< MDL)
- (3) Test condition & simulant were specified by client.

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Test Report

No. TSNEC1801370704

Date: 27 Jul 2018

Page 1 of 3

SHIJIAZHUANG HONGRAY GROUP CO., LTD.
SOUTH TONGDA RD., EAST DIST. JINZHOU CITY, HEBEI
052260, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : DISPOSABLE VINYL GLOVE

SGS Job No. : TP18-005878 - TJ
Date of Sample Received : 18 Jul 2018
Testing Period : 18 Jul 2018 - 27 Jul 2018
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Specific migration of bisphenol-A(BPA)	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Reabeca Zhou
Approved Signatory

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Test Report

No. TSNEC1801370704

Date: 27 Jul 2018

Page 2 of 3

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TSN18-013707.004	translucent gloves	PVC

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Specific migration of bisphenol-A(BPA)

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments to determine specific migration of bisphenol A.

Test Method : With reference to EN 13130-1: 2004, analysis was performed by HPLC-FID.

Sample 004

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 70 °C 2.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	11.2
Specific migration of Bisphenol-A	0.05	mg/kg	0.01	ND

Notes :

- (1) Test condition & simulant were specified by client.



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Chemical Laboratory

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Test Report

No. TSNEC1801370705

Date: 27 Jul 2018

Page 1 of 3

SHIJIAZHUANG HONGRAY GROUP CO., LTD.
SOUTH TONGDA RD., EAST DIST. JINZHOU CITY, HEBEI
052260, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : DISPOSABLE VINYL GLOVE

SGS Job No. : TP18-005878 - TJ
Date of Sample Received : 18 Jul 2018
Testing Period : 18 Jul 2018 - 27 Jul 2018
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Bisphenol-A	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Reabeca Zhou
Approved Signatory

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Test Report

No. TSNEC1801370705

Date: 27 Jul 2018

Page 2 of 3

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TSN18-013707.005	translucent gloves	PVC

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Bisphenol-A

Test Requested : In accordance with Commission Implementing Regulation (EU) 2018/213 of 12 February 2018 amending Regulation (EU) 10/2011 of 14 January 2011-Bisphenol A

Test Method : With reference to Part II Section D2 of Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO, Japan External Trade Organization, 2009 (Dichloromethane extraction by ultrasonic bath). Analysis was performed by HPLC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>
Bisphenol-A	★	mg/kg	0.1	ND
Conclusion				PASS

Notes :

- (1) ★=prohibited
- (2) The test was subcontracted to SGS Shanghai chemical lab.



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Test Report

No. TSNEC1801370709

Date: 27 Jul 2018

Page 1 of 3

SHIJIAZHUANG HONGRAY GROUP CO., LTD.
SOUTH TONGDA RD., EAST DIST. JINZHOU CITY, HEBEI
052260, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : DISPOSABLE VINYL GLOVE

SGS Job No. : TP18-005878 - TJ
Date of Sample Received : 18 Jul 2018
Testing Period : 18 Jul 2018 - 27 Jul 2018
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Residual vinyl chloride monomer	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Reabeca Zhou
Approved Signatory

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Test Report

No. TSNEC1801370709

Date: 27 Jul 2018

Page 2 of 3

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TSN18-013707.009	translucent gloves	PVC

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Residual vinyl chloride monomer

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments - Residual vinyl chloride monomer

Test Method : In-house method (SHTC-CHEM-SOP-171-T), analysis was performed by HS-GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>009</u>
VCM(Vinyl Chloride Monomer)	1	mg/kg	0.5	ND
Conclusion				PASS

Notes :

- (1) The test was subcontracted to SGS Shanghai chemical lab.



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