

Report No. : CTSSA/15740/15
Company : Messrs. SGS (Malaysia) Sdn. Bhd.
No. 26, Jalan Anggerik Vanilla 31/93, Kota Kemuning,
40460 Shah Alam, Selangor D.E.

TEST REPORT

Client :
Product Description : Latex Examination Powdered Gloves
Lot No. : 1100850000
Color : Natural
Size : Small
Quantity Tested : 2 pieces
Test Conducted : Powder Content
Test Method : ASTM D6124-01 (2011) as per ASTM D3578-05 (2010)
Testing Period : 24 Aug 2015 – 01 Sept 2015

On testing the samples, the following results were obtained:-

SIZE

S

Average Powder Mass per Surface Area

9.2 mg/dm²

SGS (MALAYSIA) SDN. BHD.



CHEE TUCK CHOON
B.Sc. MMIC
SECTION HEAD

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for seven days (perishable food sample) or three months only.

Report No. : CTSSA/15741/15
Company : Messrs. SGS (Malaysia) Sdn. Bhd.
No. 26, Jalan Anggerik Vanilla 31/93, Kota Kemuning,
40460 Shah Alam, Selangor D.E.

TEST REPORT

Client :
Product Description : Latex Examination Powdered Gloves
Lot No. : 2100850000
Color : Natural
Size : Medium
Quantity Tested : 2 pieces
Test Conducted : Powder Content
Test Method : ASTM D6124-01 (2011) as per ASTM D3578-05 (2010)
Testing Period : 24 Aug 2015 – 01 Sept 2015

On testing the samples, the following results were obtained:-

<u>SIZE</u>	<u>Average Powder Mass per Surface Area</u>
M	10.7 mg/dm ²

SGS (MALAYSIA) SDN. BHD.



CHEE TUCK CHOON
B.Sc. MMIC
SECTION HEAD

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for seven days (perishable food sample) or three months only.

Report No. : CTSSA/15742/15
Company : Messrs. SGS (Malaysia) Sdn. Bhd.
No. 26, Jalan Anggerik Vanilla 31/93, Kota Kemuning,
40460 Shah Alam, Selangor D.E.

TEST REPORT

Client :
Product Description : Latex Examination Powdered Gloves
Lot No. : 3100850000
Color : Natural
Size : Large
Quantity Tested : 2 pieces
Test Conducted : Powder Content
Test Method : ASTM D6124-01 (2011) as per ASTM D3578-05 (2010)
Testing Period : 24 Aug 2015 – 01 Sept 2015

On testing the samples, the following results were obtained:-

SIZE

L

Average Powder Mass per Surface Area

8.0 mg/dm²

SGS (MALAYSIA) SDN. BHD.



CHEE TUCK CHOON
B.Sc. MMIC
SECTION HEAD

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for seven days (perishable food sample) or three months only.

TEST REPORT

Type Of Glove : **Latex Examination Powdered Glove (Smooth)**
 Glove Code : **CW45**
 AQL Required : **1.5**
 Reference Standard : The above consignment of goods have been inspected against Top Glove standard where samples selected at random Using Single Sampling Plans for Normal Inspection of MIL-STD 105E / ISO 2859-1.

Declared - Size : - Quantity	Size	Quantity (pcs)
	S	100,000
	M	100,000
	L	100,000
	Total	300,000

1. Freedom from Holes and Visual Defects

Size	Holes			Visual Defect (Inspection Level : G1)						Result
	Inspection level : G1, AQL 1.5			Major Defects, AQL 2.5			Minor Defects, AQL 4.0			
	Sample size (pcs)	Acceptance (pcs)	Defects (pcs)	Sample size (pcs)	Acceptance (pcs)	Defects (pcs)	Sample size (pcs)	Acceptance (pcs)	Defects (pcs)	
S	200	7	3	200	10	7	200	14	5	Pass
M	200	7	3	200	10	4	200	14	7	Pass
L	200	7	2	200	10	5	200	14	10	Pass

2. Dimensions

Inspection Level : S2, AQL 4.0 Result : Pass
 Acceptance : 1

Sample No.	Size	Length (mm)	Width (mm)	Thickness (single wall) (mm)	
				Fingertip	Palm
1	S	243	86	0.08	0.08
2		244	86	0.10	0.09
3		245	86	0.11	0.08
4		243	85	0.08	0.08
5	M	244	95	0.10	0.10
6		244	95	0.11	0.09
7		243	96	0.09	0.08
8		245	95	0.11	0.09
9	L	244	105	0.10	0.08
10		241	105	0.11	0.09
11		243	105	0.09	0.08
12		244	105	0.10	0.09
13		245	104	0.11	0.10

ASTM D3578 – 05 (2015) Requirement:

Size	Length (mm)	Width (mm)	Thickness (mm)
XS	≥ 220	70 ± 10	Finger & Palm (Single wall) Min 0.08
S			
M	≥ 230	95 ± 10	
L		111 ± 10	

3. Physical Properties

Inspection Level : S2, AQL 4.0 Result : Pass
 Acceptance : 1

Sample No.	Size	Before Aging		After Accelerated Aging	
		Tensile Strength (MPa)	Elongation %	Tensile Strength (MPa)	Elongation %
1	S	21.6	723	16.5	561
2		20.8	717	14.6	584
3		19.5	736	15.8	573
4		23.2	718	16.7	567
5	M	22.7	689	17.3	574
6		21.8	710	18.5	621
7		18.9	688	15.2	608
8		20.4	709	16.4	592
9	L	20.7	691	14.9	580
10		19.3	715	15.5	577
11		20.1	706	16.3	613
12		18.6	694	15.8	606
13		22.4	714	16.2	598

ASTM D3578 – 05 (2015) Requirement:

Before Aging		After Aging	
Tensile	Elongation	Tensile	Elongation
Min 18 MPa	Min 650%	Min 14 MPa	Min 500%

Note :
 A test result is the median of three individual test measurement values.

4. Powder Amount

Sampling size, N = 2
 Requirement: Max 10 mg / dm²

Size	mg / dm ²	Result
S	5.3	Pass
M	7.0	Pass
L	6.9	Pass

CONCLUSION : We hereby certify that the above consignment of goods were determined to meet the acceptable limit of the specifications as referring to the above findings of randomly selected samples.

Prepared By :
 Noorul Shamsidah Hamsudin
 QA Manager

Verified By :
 Noor Akilah Saidin
 QA Deputy General Manager

SAFETY DATA SHEET

LATEX EXAMINATION GLOVE

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Latex examination glove [powdered, powder-free]
 Chemical Family : Natural rubber glove
 Company Name :
 Address :
 Tel : +603-2797 28
 Fax : +603-2797 28

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview

Latex examination gloves are not hazardous.

Hazard : Non-hazardous.
 Physical State : Solid, film.
 Colour : Clear, coloured.

Potential Health Effects

Routes of Exposure : Skin contact
 Signs and Symptoms : No adverse health effects are anticipated from the reasonable use of latex examination gloves.

Eyes : Non-hazardous.
 Inhalation : Non-hazardous.
 Skin : Not a Primary Skin Irritant. Not a Dermal Sensitizer.
 Ingestion : This product has not been tested.

SECTION 3: COMPOSITION/ INFORMATION OF INGREDIENTS

Powdered : Natural rubber latex, corn starch, calcium carbonate, ZDBC, ZDEC, zinc oxide, polymeric hindered phenol, sulphur and titanium dioxide.

Powder-free : Natural rubber latex, cyclaron-1, ZDBC, ZDEC, zinc oxide, polymeric hindered phenol, sulphur, wax and titanium dioxide.

SAFETY DATA SHEET LATEX EXAMINATION GLOVE

SECTION 4: FIRST AID MEASURES

Steps to be taken in event of mishap:

Eyes	: Non-applicable.
Inhalation	: Non-applicable.
Skin	: Wash with soap and water.
Ingestion	: Seek medical attention if a significant quantity has been swallowed.

SECTION 5: FIRE FIGHTING MEASURES

Flammability Classification	: Non-classified. Gloves will burn but does not easily ignite.
Extinguishing Media	: Water spray, carbon dioxide, foam or dry chemical.
Firefighting Precautions	: Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Release Response	: Retain for recycle or disposal.
------------------	-----------------------------------

SECTION 7 : HANDLING AND STORAGE

Latex examination gloves shall maintain their properties when stored in dry condition at temperature between 10°C to 30°C. Protect gloves against ultraviolet light sources such as sunlight and oxidizing agents.

SAFETY DATA SHEET LATEX EXAMINATION GLOVE

SECTION 8: EXPOSE CONTROLS AND PERSONAL PROTECTION

Engineering Control

Use local exhaust in confined spaces where latex examination gloves are heated.

Personal Protective Equipment

Eyes : Not required. Use goggles if latex examination gloves are heated.
Inhalation : Not required.
Skin : Not required. Use heat resistant gloves if latex examination gloves are heated to melting state.

SECTION 9: PHYSICAL/ CHEMICAL PROPERTIES

Appearance : Ambidextrous
 Textured, embossed inside/ outside
 Clear or coloured

Physical State : Solid

Odour : Odourless

pH : 7.35

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability : Latex examination gloves are stable.
Conditions to Avoid : Avoid contact with excessive heat, sparks or open flame. Avoid dust accumulation.
Hazardous Products : Variety of toxic off-gases may be formed when cast polyethylene

SAFETY DATA SHEET LATEX EXAMINATION GLOVE

of decomposition gloves burn and may further cause respiratory irritation. The gloves shall have shelf life of 5 years from the date of manufacturer with the above storage condition.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Effects : Non-toxic.
Sub-chronic and Chronic Effects : Non-toxic.

SECTION 12: ECOLOGICAL INFORMATION

Product of Biodegradation : Non-biodegradable.
Ecotoxicity : Latex examination gloves are considered as inert.

SECTION 13: DISPOSAL CONSIDERATION

This document covers the recommended method for disposal for latex examination gloves manufactured by Top Glove Sdn. Bhd.

Incineration: Put appropriate amount of the gloves into the incinerator or furnace to destroy them following the requirements shown below.

Requirements:

- 1) Burning temperature exceeds 850°C
- 2) Combustion retention time is not less than 2 seconds

Note: Gloves should not be destroyed by open burning at low temperature or dispose at normal disposal area.

SAFETY DATA SHEET LATEX EXAMINATION GLOVE

Other Disposal Considerations: Check with state and local authorities before discarding.
The information offered here is for product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the proper disposal method.

SECTION 14: TRANSPORT INFORMATION

Non-dangerous goods.

SECTION 15: REGULATORY INFORMATION

Non-applicable.

SECTION 16: OTHER INFORMATION

This Product Safety Data Sheet is offered solely for your information. Top Glove Sdn. Bhd. provides no warranties, either express or implied, concerning the safe use of this product in your process or in combination with other substances and assumes no responsibility for the accuracy or completeness of the data contained herein. User has the sole responsibility to determine the suitability of the product for any use and the manner of use contemplated.

.....**END**.....

Prepared By:
QA/ RA Division

Verified By:
Pn Noor Akilah Saidin
QA Deputy General Manager