

Report No.: 242123022-01

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Client: NTL INNOVATION CO., LTD.

Contact Information: 68 Moo 4 , Chalung, Hatyai, Songkla 90110

Identification/ Powder Free Nitrile Examination Blue Gloves

Model No(s): 001(S), 002(M), 003(L)

Sample Receiving date: 2020-10-06

Testing Period: 2020-10-06-2020-10-28

Delivery condition: *Apparent good, Samples tested as received*

Test Specification:

Test result:

- | | |
|--|------|
| 1. EN 455-1: 2000: Requirements for freedom from holes | PASS |
| 2. EN 455-2: 2015: Physical properties test; | |
| - Dimension test | PASS |
| - Force at break test | PASS |

Other Information:

Material type: Nitrile

Grade: Medical

Manufacture: NTL INNOVATION CO., LTD.

Country of Origin: Thailand

For and on behalf of

TÜV Rheinland Thailand Ltd.



2020-10-28

Wilawan Sriprom / Manager

Date

Name/Position

*Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

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Sampling Information:

Inspection Method: No inspection, submitted sample by client

Inspection level: N/A

AQL: N/A

Sample size: N/A

Material list:

Material No.	Material	Color	Location
M001	Nitrile Glove	Blue	Size S
M002	Nitrile Glove	Blue	Size M
M003	Nitrile Glove	Blue	Size L

Freedom from holes

Test method: With reference to EN 455-1: 2000

Test results:

Gloves Size	Tested samples	No. of samples for Non-compliance	Conclusion
S	250 pcs.	0	Pass
M	250 pcs.	0	Pass
L	250 pcs.	0	Pass

Remark:

- All samples were selected and supplied by the client.
- The batch size of the gloves supplied was not stated by the client. In accordance with BS EN 455-1, a batch size between 35,001 to 150,000 was chosen, and therefore 50 gloves per stage were tested for perforations using General Inspection Level I at an AQL of 1.5% with reference to table;

Stage No.	Cumulative no. tested	Accept	Reject
First	50	0	4
Second	100	1	6
Third	150	3	8
Fourth	200	5	9
Fifth	250	9	10

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Dimension test

Test method: EN 455-2: 2015

Test results:

Test No.:	T001		T002	
Material No.:	M001		M002	
Tested no.	Length (mm)	Width (mm)	Length (mm)	Width (mm)
1	242	82	241	95
2	241	80	245	94
3	241	80	244	93
4	240	82	243	94
5	240	84	242	95
6	240	84	243	94
7	244	83	244	95
8	240	83	242	94
9	240	81	245	93
10	240	83	245	93
11	240	82	245	94
12	240	83	245	93
13	240	82	242	95
Median result	241	82	244	94
Conclusion	Pass	Pass	Pass	Pass

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Test No.:	T003	
Material No.:	M003	
Tested no.	Length (mm)	Width (mm)
1	244	105
2	242	105
3	242	105
4	242	105
5	242	107
6	245	107
7	242	108
8	242	105
9	240	108
10	245	110
11	245	106
12	242	105
13	243	106
Median result	243	106
Conclusion	Pass	Pass

Abbreviation: mm denotes millimeter

Remark: Dimension limit reference to table

Size	Median length (mm)	Median width (mm)
Extra small	≥ 240	≤ 80
Small		80±10
Medium		95±10
Large		110±10
Extra large		≥ 110

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Force at break

Test method: EN 455-2: 2015

Test results:

Test No.	T001		T002	
Material No.	M001		M002	
Tested no.	Force at break Before ageing (N)	Force at break After ageing (N)	Force at break Before ageing (N)	Force at break After ageing (N)
1	9.47	7.33	8.76	7.91
2	8.01	10.00	8.25	7.87
3	7.08	7.89	7.48	6.17
4	9.90	7.73	7.19	6.79
5	7.71	7.91	8.86	7.23
6	9.48	8.70	10.37	7.15
7	7.14	9.32	7.51	8.36
8	10.19	6.99	8.44	8.84
9	10.01	7.00	7.87	7.13
10	9.67	8.67	7.87	7.40
11	6.99	8.10	9.26	6.32
12	8.41	10.06	9.08	7.26
13	9.13	9.29	8.56	8.06
Median result	8.71	8.38	8.42	7.42
Conclusion	Pass	Pass	Pass	Pass

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Test No.	T003	
Material No.	M003	
Tested no.	Force at break Before ageing (N)	Force at break After ageing (N)
1	9.40	10.81
2	10.57	9.36
3	10.07	9.46
4	9.52	9.81
5	10.54	10.51
6	7.25	10.14
7	9.16	10.09
8	8.89	9.62
9	8.24	10.17
10	10.19	7.64
11	10.14	10.79
12	7.60	9.62
13	8.05	8.07
Median result	9.20	9.72
Conclusion	Pass	Pass

Abbreviation: N denotes Newton

Remark:

1. Median values of force at break

Force at Break (newton)		
a)	b)	c)
≥ 9.0	≥ 6.0	≥ 3.0

- a) Requirements for all surgical gloves
- b) Requirements for all examination gloves, except gloves made from thermoplastic materials (e.g. Polyvinylchloride, Polyethylene)
- c) Requirements for gloves made from thermoplastic materials (e.g. Polyvinylchloride, Polyethylene)

Sample photo

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M001 – Size S



M002 – Size M



M003 – Size L

- END -