



中国认可
国际互认
检测
TESTING
CNAS L4892

TEST REPORT

REPORT NO.: UK210407049

PRODUCT NAME: Disposable Nitrile Gloves (NBR)

PRODUCT MODEL: M

DATE OF ISSUE: 2021-04-19

TESTING INSTITUTE: Guangdong U.K Standard Testing Co., Ltd.



U.K Standard Testing

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TEST REPORT

Product Name:	Disposable Nitrile Gloves (NBR)	Applicant:	Shandong Intco Medical Products Co., Ltd
Product Model and Parameter:	M	Address of Applicant:	No.9888Qiwang Road,Naoshan Industry Park,Qingzhou,Shandong,China
Sample Source:	Customer	Manufacturer:	Shandong Intco Medical Products Co., Ltd
Sample Qty:	10 pcs	Address of Manufacturer:	No.9888Qiwang Road,Naoshan Industry Park,Qingzhou,Shandong,China
Sample Date Received:	2021-04-12	Factory:	Shandong Intco Medical Products Co., Ltd
Test Date:	2021-04-12 to 2021-04-19	Address of Factory:	No.9888Qiwang Road,Naoshan Industry Park,Qingzhou,Shandong,China

Test Standard:

ANSI/ESD S20.20-2014 ESD Association Standard for the Development of an Electrostatic Discharge Control Program for – Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices)
IEC 61340-5-1:2016 Electrostatics – Part 5-1: Protection of electronic devices from electrostatic phenomena – General requirements
ANSI/ESD SP 15.1-2011 ESD Association Standard Practice for the Protection of Electrostatic Discharge Susceptible Items- In-Use Resistance Testing of Gloves and Finger Cots*

Test Result:

All test results meet the standard requirements

Test Engineer: David Cheng Date: 2021-04-12 to 2021-04-19	Signature: <i>David Cheng</i>	
Project Engineer: Samuel Huang Date: 2021-04-19	Signature: <i>Samuel Huang</i>	
Authorized Signatory: Eddie Ma Date: 2021-04-19	Signature: <i>Eddie Ma</i>	
Note: Place mark with the inspection basis at the “*” is not within the scope of CNAS approval in our laboratory.		

Test Results

Test item	Inspection items and requirements	Result
Disposable Nitrile Gloves (NBR)		
Measurement of electrostatic voltage decay time	Measurement of electrostatic voltage decay time: 1. Place the sample to be tested on the charging plate and make good contact. 2. After charging on the charging plate, disconnect the high-voltage power supply of the instrument, and at the same time, reliably ground the sample to be tested, and record the time when the plate voltage decays to the agreed percentage voltage. 3. During the test, the grounding electrode shall not be connected with the charging plate. 4. Applied voltage: 1000V Residual voltage < 100V	Pass
Baseline Resistance Measurement of Operator	Baseline Resistance Measurement of Operator: 1. Select the thumb and/or finger(s) to be tested. Attach the wristband to the wrist of that hand 2. Attach the ground cord without the one megohm resistor to one input of the resistance meter. Ensure that the wristband makes a good connection with the skin. 3. Attach the Constant Area and Force Electrode (CAFE) via the banana jack to the other input of the resistance meter. 4. Balance the CAFE on the fingerprint side of the thumb or first finger of choice of the hand that has the wrist strap connected to it 5. Record the resistance measurement between the electrode on the bare finger and the wrist strap after 15 seconds electrification time. 6. Repeat the test for the other fingers 5. Instrument applied voltage: 100V Resistance range: $1 \times 10^5 \Omega \sim 1 \times 10^9 \Omega$	Pass
Ambient : 24.5°C , Humidity: 49%RH		

Test Results			
Glove 1	Triboelectric charge generation(V)	Decay time (s)	Surface resistance test(Ω)
Thumb	+43	0.1	$1.17 \times 10^8 \Omega$
First finger	+45	0.2	$1.54 \times 10^8 \Omega$
Middle finger	+48	0.2	$1.42 \times 10^8 \Omega$
Ring finger	+39	0.1	$2.01 \times 10^8 \Omega$
Little finger	+46	0.1	$1.60 \times 10^8 \Omega$
Glove 2	Triboelectric charge generation(V)	Decay time (s)	Surface resistance test(Ω)
Thumb	+47	0.1	$1.26 \times 10^8 \Omega$
First finger	+46	0.1	$2.11 \times 10^8 \Omega$
Middle finger	+45	0.2	$1.68 \times 10^8 \Omega$
Ring finger	+43	0.1	$2.17 \times 10^8 \Omega$
Little finger	+47	0.2	$1.42 \times 10^8 \Omega$
Glove 3	Triboelectric charge generation(V)	Decay time (s)	Surface resistance test(Ω)
Thumb	+41	0.1	$1.25 \times 10^8 \Omega$
First finger	+47	0.1	$1.54 \times 10^8 \Omega$
Middle finger	+46	0.2	$2.32 \times 10^8 \Omega$
Ring finger	+43	0.2	$2.17 \times 10^8 \Omega$
Little finger	+45	0.2	$1.58 \times 10^8 \Omega$
Glove 4	Triboelectric charge generation(V)	Decay time (s)	Surface resistance test(Ω)
Thumb	+46	0.2	$1.53 \times 10^8 \Omega$
First finger	+47	0.1	$1.26 \times 10^8 \Omega$
Middle finger	+42	0.2	$1.74 \times 10^8 \Omega$
Ring finger	+46	0.1	$1.57 \times 10^8 \Omega$
Little finger	+44	0.1	$2.13 \times 10^8 \Omega$
Glove 5	Triboelectric charge generation(V)	Decay time (s)	Surface resistance test(Ω)
Thumb	+47	0.2	$1.26 \times 10^8 \Omega$
First finger	+46	0.1	$1.48 \times 10^8 \Omega$
Middle finger	+43	0.1	$1.59 \times 10^8 \Omega$

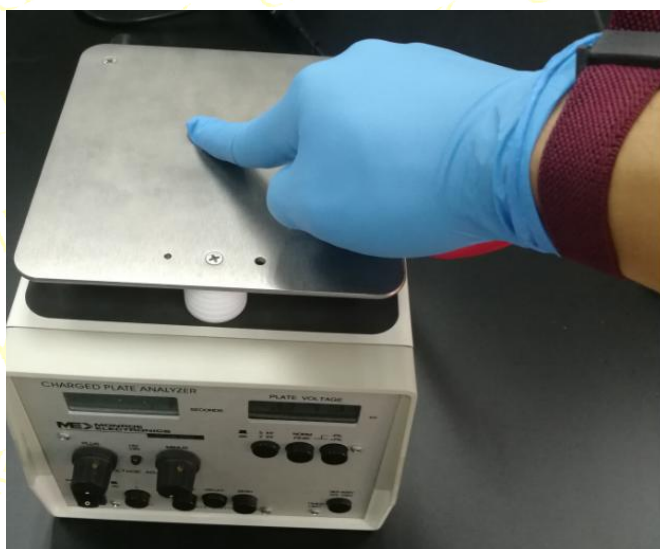
Test Results

Ring finger	+47	0.1	$1.68 \times 10^8 \Omega$
Little finger	+45	0.2	$1.45 \times 10^8 \Omega$

Sample Photo



样品图片



测试示例

Testing Equipment

Equipment No.	Equipment Name	Calibration Date	Next Calibration Date
UK01-004	Temperature and humidity meter	2021-03-18	2022-03-17
UK05-084	Surface resistance tester	2021-03-18	2022-03-17
UK05-086	Ion Balance Analyzer	2021-03-18	2022-03-17

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