

PRODUCT SPECIFICATION

HandPRO[®] SERIES 9100 CLEAN CLASS NITRILE GLOVES

300mm (12") Length



Patented Technology*

ISO Class 5 Compatible

Low Density Manufacturing
Process

Accelerator-Free* Nitrile

Low Endotoxin

Sulfur-Free

Powder-Free

White Color

Low Dye

Anti-Slip Grip

Enhanced Strength

Anti-Fatigue Formula

Finger-Textured

Ambidextrous

Non-Sterile

Beaded Long Cuff

*No dithiocarbamates, thiurams
or mercaptobenzothiazoles (MBT)
Patent www.lowderma.com/patents



QUALITY & CONFORMITY

- Manufactured under ISO 13485, CAN/CSA ISO 13485, ISO 9001 and US FDA QSR Quality Management System
- Conforms to Council Directive 89/686/EEC
- Conforms to PPE Regulation (EU) 2016/425
- Conforms to the following additional test standards:

IST-RP-CC005.4	Recommended Practice for Cleanroom Gloves
ASTM D412	Tensile Properties of Vulcanized Rubbers
ASTM D5151-99	Standard Test for Detection of Holes in Medical Gloves
ASTM D573	Accelerated Aging for Nitrile (at 70° C for 166hr)

PERFORMANCE REQUIREMENTS

Characteristic	Inspection Level	AQL
Freedom from Holes	G1	2.5
Visual Defects (Major)	G1	2.5
Visual Defects (Minor)	G1	4.0
Physical Properties	S2	4.0
Physical Dimensions	S2	4.0

PHYSICAL DIMENSIONS

Size	X-Small (5/6)	Small (6/7)	Medium (7/8)	Large (8/9)	X-Large (9/10)	XX-Large (10/11)
Palm Width $\pm$ 5 mm	75	85	95	106	116	120
Glove Length (mm)	Minimum 295 (Typical Value 303~305)					
Thickness (mm)	Manufacturing Minimum			Typical Value		
Cuff (25 $\pm$ 5 mm from bead)	0.05			0.08~0.09		
Palm (center of palm)	0.06			0.10~0.11		
Finger (13 $\pm$ 3 mm from tip)	0.08			0.14~0.16		

PHYSICAL PROPERTIES

Test	Before Aging		After Aging	
	Manufacturing Minimum	Typical Value	Manufacturing Minimum	Typical Value
Tensile Strength (MPa)	14	23.8~28.0	14	27.4~29.9
Ultimate Elongation	500%	560~580%	400%	540~560%
Force at Break	6.0 N	-	6.0 N	-

CLEANLINESS SPECIFICATION

Particulates (0.5-20 μ m)	<900 particles/cm ²	Non Volatile Residue	<5 μ g/cm ²
Anions μ g/cm ²		Cations μ g/cm ²	
Bromide	<0.008	Ammonium	<0.012
Chloride	0.129	Calcium	0.117
Fluoride	<0.012	Lithium	<0.001
Nitrate	0.547	Magnesium	<0.016
Nitrite	<0.020	Potassium	0.074
Phosphate	<0.016	Sodium	0.035
Sulfate	0.016	Zinc	0.011

The specifications provided reflect the minimum acceptable requirements of the ASTM and FDA where applicable. Actual testing results are available upon request. Gloves offered by Hourglass International, Inc. meet or exceed these physical requirements. Independent laboratory test results are available upon request.

Your Protection Is
Our Purpose



ELECTRICAL PROPERTIES

HandPRO 9100 is a static dissipative glove in-use.

PRODUCT NUMBERS

Size	Item #	Case Quantity
X-Small	9100	1000
Small	9101	1000
Medium	9102	1000
Large	9103	1000
X-Large	9104	1000
XX-Large	9105	1000

PACKAGING

A 50 glove stack is placed into the right side of a plain bag, and another 50 gloves are placed on the left side of the same plain bag. The plain bag is sealed and placed into another outer bag. The outer bag is sealed. Ten packed outer bags are placed into a carton box with a carton liner. Carton liners are twist tie wrapped and carton is sealed with transparent tape. Outer bags and cartons are stamped with a lot number.

SHELF LIFE & STORAGE

Three years from date of manufacture. Store in a cool, dry place away from direct sunlight.

Manufactured in Malaysia for Hourglass International, Inc.

The information on this document is a guideline of typical values and characteristics of the product.

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