

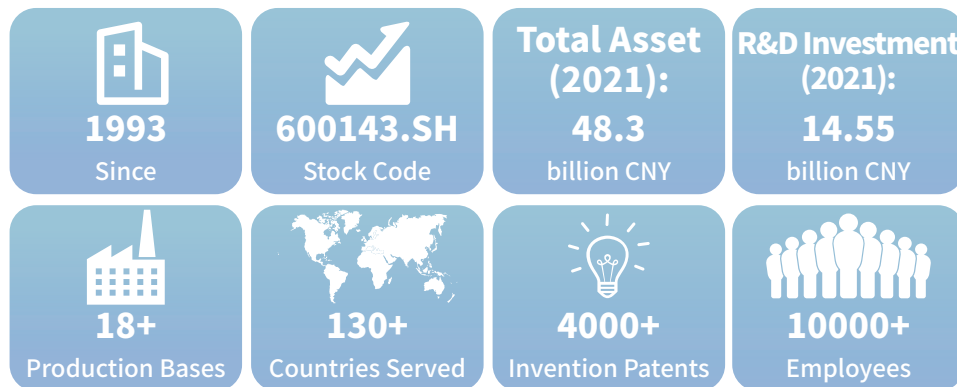
Biodegradable Nitrile Examination Gloves



ABOUT KINGFA

Leading Manufacturer of PPE & Medical Supplies

KINGFA provides customers with PPE whole industry chain services from the upstream production of polypropylene, the midstream production of melt blown material to the downstream production of PPE & medical supplies.



Extensive Product Portfolio



「Carbon」 Strategy

KINGFA
金发科技

Dedicated to growing together and sharing in its achievements with its partners, Kingfa has been providing innovative, high-quality materials and a better quality of life for all. In response to the national goals of reaching CO₂ emissions peak before 2030 and achieving carbon neutrality before 2060, Kingfa has embarked on the road of Green, Low-carbon, and Circular Development. Starting in 2021, Kingfa together with its various stakeholders, will begin to establish a carbon management system in which Kingfa will track its corporate carbon footprint in order to stay in compliance with the relevant standards. Kingfa will continue to reduce its carbon emissions and disclose, on a regular basis, its progress towards carbon neutrality.



2060

carbon neutrality

- To collaborate with the entire industry chain to track and confirm the life-cycle carbon footprint of products in order to continuously facilitate the reduction of Kingfa's corporate emissions
- To provide low-carbon solutions for the entire value chain, while also accelerating the overall reduction of industry emissions



2030

green plastics (production)
plastic waste (collection)
recycled plastics (production)

1 million tons

- To select key products for the tracking and verification of their carbon footprints in accordance with relevant standards; to continuously improve and refine Kingfa's emission reduction work and announce its efforts to the public on a regular basis
- To construct an integrated system for the R&D, design, production, supply, and services of green and low-carbon recycled materials with the aim of efficiently facilitating Kingfa's goal of emission reduction per product unit
- To establish a recycling mechanism to benefit the plastic industry; to promote and constantly refine this recycling system



2030

GHG 30%



- To identify, inspect, and monitor corporate operational emissions; establish Kingfa's carbon management system with continued efforts to optimize the system
- To expand the scope of application for green energy sources, build green, industrial parks and factories, and encourage relevant parties to implement green and low-carbon guidelines in their production, life, and daily work
- To establish a green procurement mechanism and a carbon emission management system for Kingfa's supply chain, with an aim of achieving a net zero emission goal throughout Kingfa's entire supply chain

KINGFA Strengths



KINGFA offers a comprehensive range of OEM services, and can draw on years of experience meeting the specific needs of customers all over the world.



KINGFA is not just a solution provider but also a technological leader. Our technical support is committed to providing our customers with innovative solutions.



KINGFA has built a high-level independent R&D team with more than 800 masters and senior experts, staying at the forefront of technological innovation.



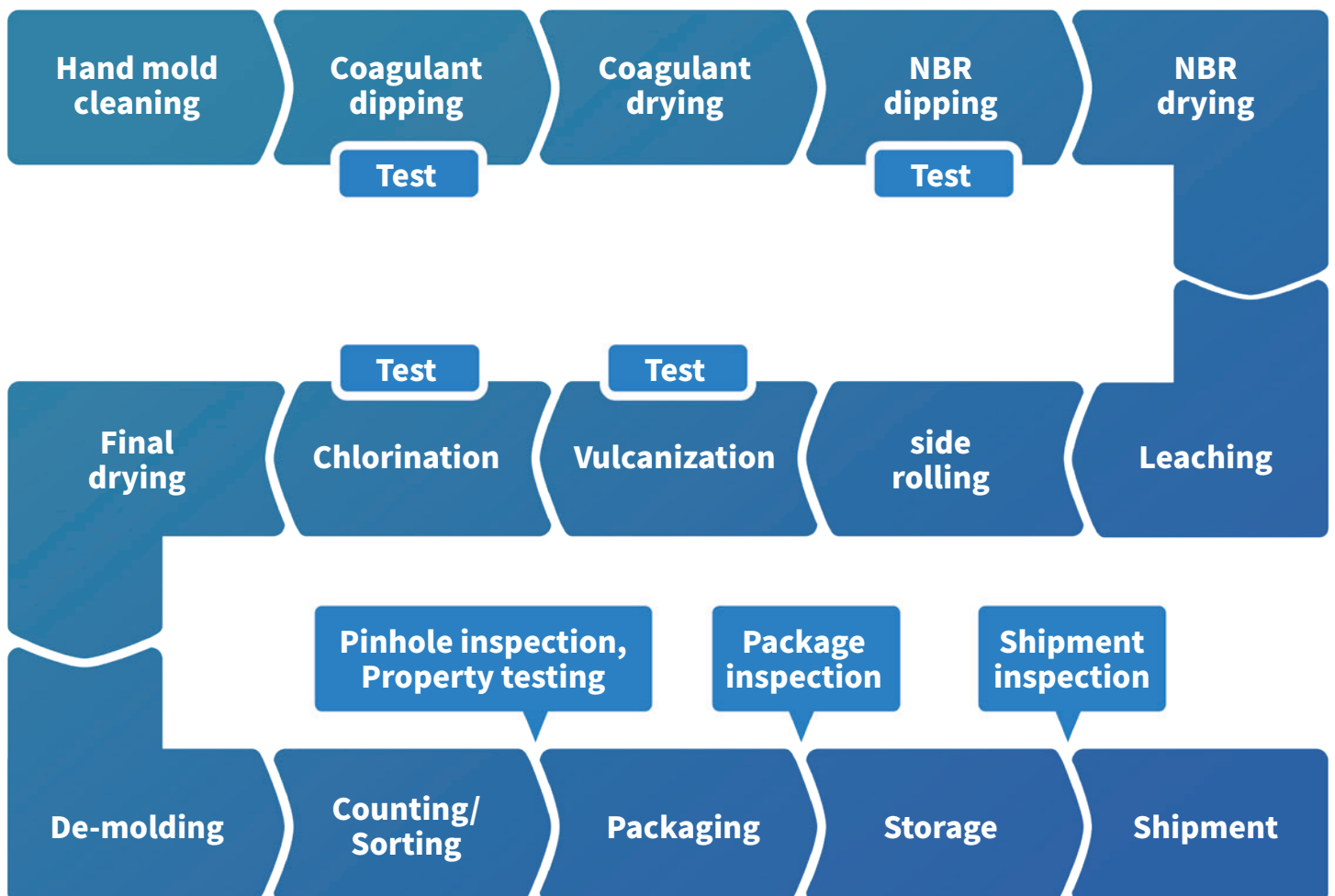
KINGFA has a complete quality management system, certified by ISO 9001 and ISO 13485. We are committed to providing the highest quality standards while maintaining the sustainability of our business.

KINGFA Nitrile Gloves Factory

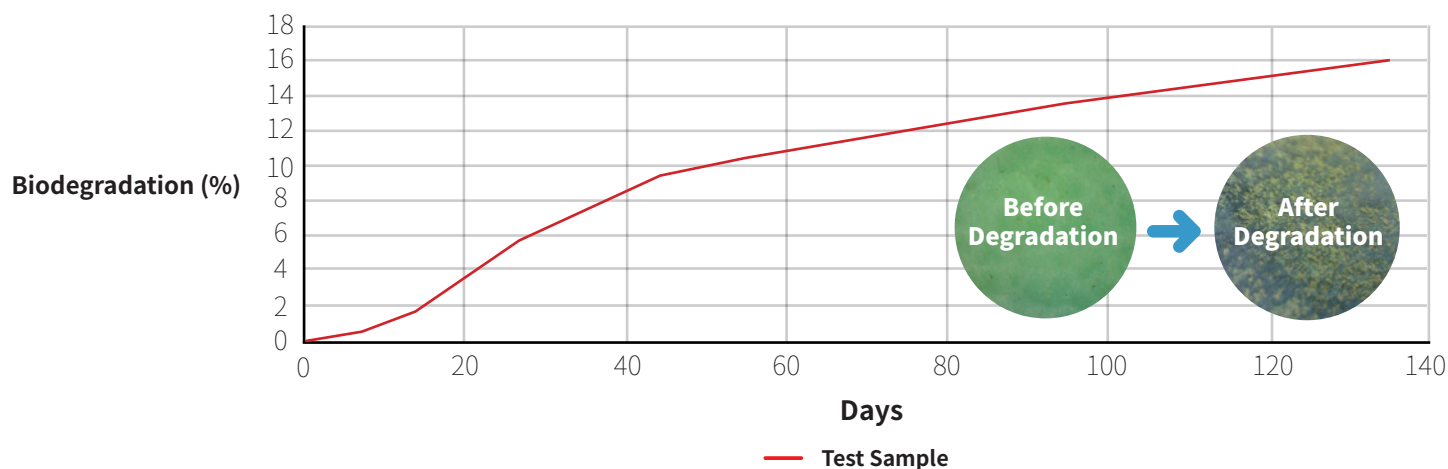
KINGFA nitrile gloves are produced with high speed, double track production lines and surface-treated by chlorine which makes gloves smooth and easier to wear. Advanced quality management model can efficiently maintain the quality of gloves over the corresponding standard for different fields. Reasonable technology design and energy management system can effectively reduce the energy consumption. Meanwhile, advanced water recycling system and chemicals recycling system can synergistically reduce the sewage discharge. All these assistant systems make production lines more efficient and environmentally-friendly.



KINGFA Nitrile Gloves Production & Quality Management Model



Biodegradation Ability and Process

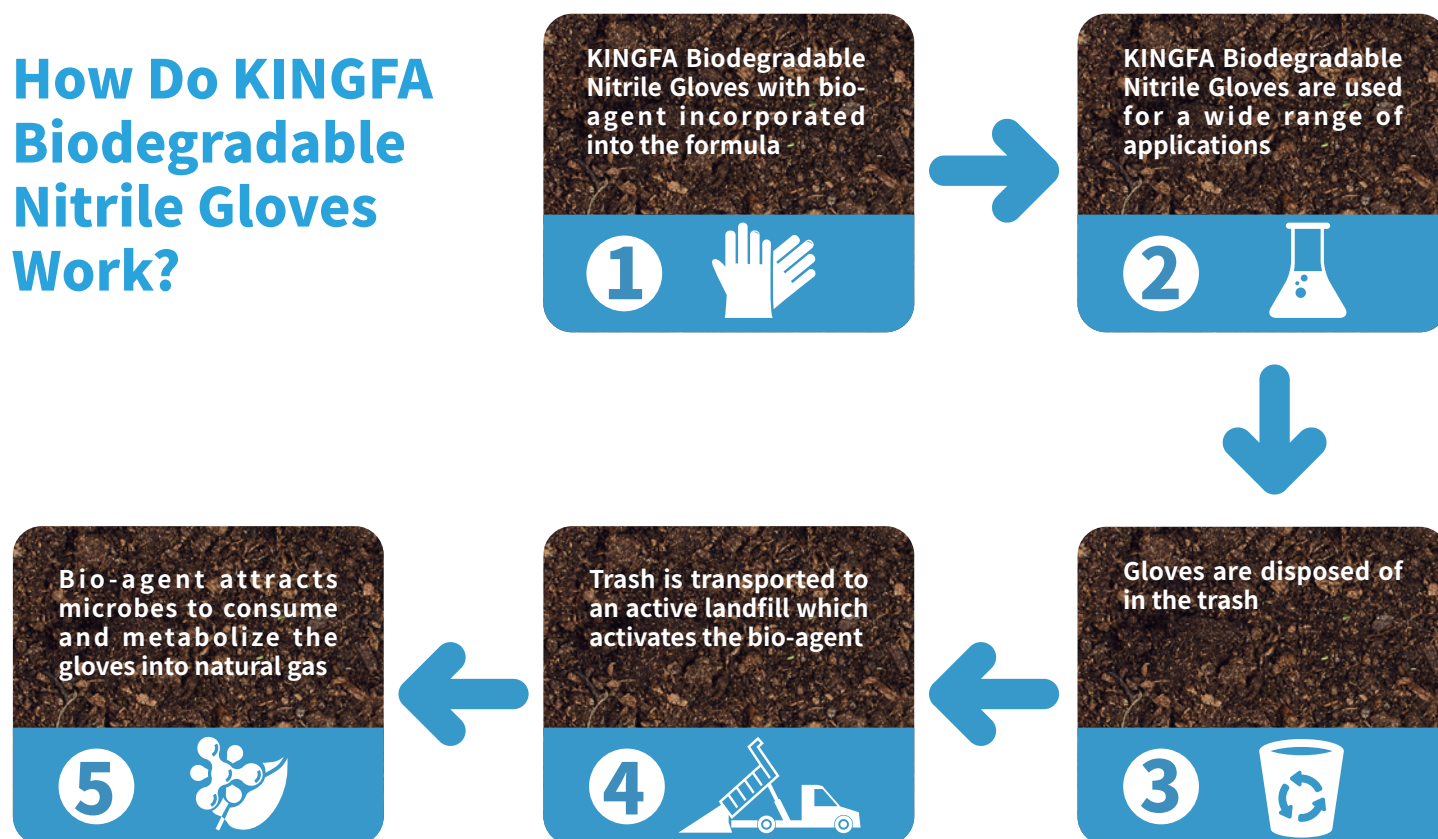


Biodegradation Will Increase with the Extension of Time

Biodegradation test		
45days	Standard biodegradation rate $\geq 5\%$	Test results $\approx 9.57\%$
90 days	Standard biodegradation rate $\geq 10\%$	Test results $\approx 13.14\%$
135 days	Standard biodegradation rate $\geq 15\%$	Test results $\approx 15.99\%$

Total Degradation Time(estimated):3-5 years

How Do KINGFA Biodegradable Nitrile Gloves Work?



Biodegradation Mechanism and Characteristics



Butadiene:

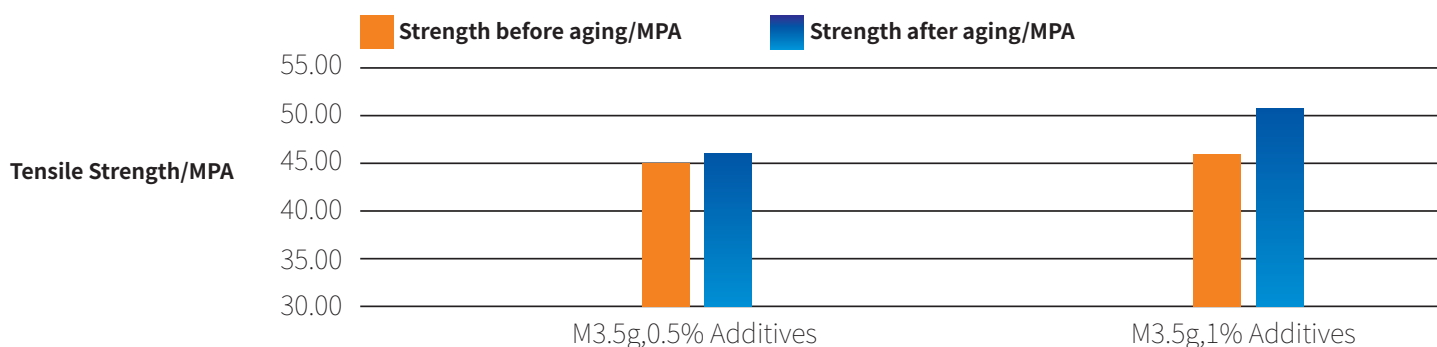
Butadiene monomer is present as the gaseous state in the atmosphere, which can be degraded by chemically induced hydroxyl free radicals, ozone or nitro free radicals. In addition, It is moderately mobile in soil and easily volatilized to the atmosphere by significant volatility. It has biodegradable but weakly bioconcentrating.

Acrylonitrile:

Acrylonitrile is used by microorganisms in two main ways :

1. Acrylonitrile is first converted to acrylamide by nitrile hydase, and then converted to acrylic acid by amidase;
2. Acrylic acid is produced directly under the action of nitrile hydrolase. Finally, it is absorbed and metabolized into CO₂ and water by microorganisms

Properties: Biodegradable nitrile gloves do not degrade under normal conditions, and their performance is the same as that of ordinary nitrile gloves. The gloves degrade only in microbial soil.



The introduction of degradation additives does not affect nitrile gloves' overall mechanical properties and aging resistance!

Contrast of Carbon Emission Reduction

Index of Pollutants	KINGFA Biodegradable Gloves	Common Gloves
CO ₂ released by handling 1000 gloves	0kg	5kg
Generation of nitrogen oxides	NO	YES
Generation of sulfide	NO	YES
Other pollutants	NO	YES

KINGFA Biodegradable Nitrile Examination Gloves



Textured Fingertips



KINGFA Biodegradable Nitrile Examination Gloves are specially designed to biodegrade in both anaerobic and aerobic conditions in landfills.

Features

- 100% Nitrile, Biodegradable, Powder-Free, Surface-Chlorinated
- Available in green, blue, blue violet
- Beaded cuff ensures easy donning and prevent roll down
- Textured fingertips enhanced wet and dry grip
- Decreased risk of allergies
- Excellent chemical splash protection
- Protection against bacteria and fungi
- Superior strength with better puncture resistance
- Excellent tactile sensitivity

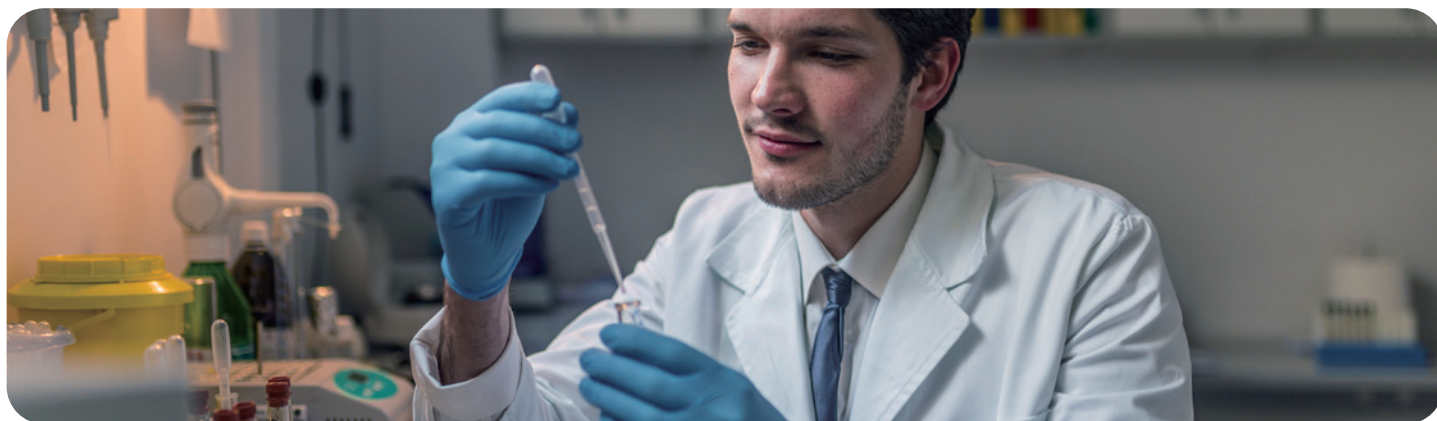
Standard Quality

EN374 TYPE B

EN 455

ASTM D6319

ASTM D5511



Specification

2.5 Mil Biodegradable Nitrile Gloves

Glove Length (mm/inches) min:
240 / 9.5

Palm Thickness (mm/mil):
 $0.06 \pm 0.02 / 2.4 \pm 0.8$

Finger Thickness (mm/mil):
 $0.09 \pm 0.02 / 3.5 \pm 0.8$

Unite Weight (g):

S $3.5 \pm 0.3g$

M $3.7 \pm 0.3g$

L $4.0 \pm 0.3g$

XL $4.3 \pm 0.3g$

3 Mil Biodegradable Nitrile Gloves

Glove Length (mm/inches) min:
240 / 9.5

Palm Thickness (mm/mil):
 $0.08 \pm 0.02 / 3.2 \pm 0.8$

Finger Thickness (mm/mil):
 $0.12 \pm 0.02 / 4.8 \pm 0.8$

Unite Weight (g):

S $4 \pm 0.3g$

M $4.4 \pm 0.3g$

L $4.7 \pm 0.3g$

XL $5 \pm 0.3g$

4.0 Mil Biodegradable Nitrile Gloves

Glove Length (mm/inches) min:
240 / 9.5

Palm Thickness (mm/mil):
 $0.10 \pm 0.02 / 4.0 \pm 0.8$

Finger Thickness (mm/mil):
 $0.16 \pm 0.02 / 6.4 \pm 0.8$

Unite Weight (g):

S $5 \pm 0.5g$

M $5.5 \pm 0.5g$

L $6 \pm 0.5g$

XL $6.5 \pm 0.5g$

Application



CHEMOTHERAPY



MEDICAL



DENTISTRY



PET CARE



LABORATORY



JANITORIAL



HOUSEHOLD



HAIRDRESSING



INDUSTRIAL



AUTOMOTIVE



DIY



FOOD HANDLING

Packaging Information

Exterior Design

100 pcs/box
Size :210*110*63 mm



BIO-G01 (BLUE)

BIO-G05 (GREEN)

Carton Design

10 boxes/carton
Size: 320*230*220mm



Container Loading

(For Reference Only/Without Pallets)

20GP	1800 cartons
40GP	3600 cartons
40HQ	4300 cartons

OEM Services

- Product design and development
- Flexible & timely manufacture
- Quality control and regulatory compliance
- Cost effective with product assurance
- Packaging & shipment
- Technical support



Contact your KINGFA representative for more information

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