DUKES™ | INNOVATION & SUSTAINABILITY

BIOSERV

# BIOSERV™

BIODEGRADABLE DISPOSABLE NITRILE GLOVES

NON-MEDICAL

## Nitrile Powder-free disposable gloves, suitable for use across all food-service environments.

### PRODUCT DESCRIPTION

This biodegradable non-sterile glove features an advanced formulation providing you with the ultimate fit, comfort, and protection. With its high strength and excellent protective features, this glove is ideal for nearly all food-service and hospitality focused environments.

Highly tensile for superior puncture resistance yet tactile enough for ease of movement when handling food and beverage, cooking utensils,

Suitable for extended periods of use with no skin irritation or dryness.

### KEY FEATURES AND BENEFITS

- Biodegrading efficacy rate of 90% after within 500 days* (Instead of 200 years)
- High quality formulation for exceptional fit and comfort providing better tactile sensitivity when needed most.
- Tested against opioid fentanyl citrate and chemo drugs, offerings extreme protection when needed most.
- Customized thickness at fingertips for extra grip in fast paced environments

### RECCOMENDED AREAS OF USE

• Food service • Hospitality • General cleaning • Aged care • Vetinary • Security & law enforcement

• Chemical handling* • Packing/preparation lines • Mechanical

### STANDARDS/COMPLIANCE

TESTED FOR USE WITH CHEMOTHERAPY DRUGS

TESTED FOR USE WITH FENTANYL & SIMULATED GASTRIC ACID

ASTM D6319

FDA

ASTM INTERNATIONAL

FDA REGISTRATION NUMBER 3022297833

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## PRODUCT SPECIFICATIONS

| | |
|---|---|
| **Product code** | **DUKESBIOSERV-XSSMLXL001** |
| **Product type** | **Powder-Free Examination Gloves, Non-Sterile** |
| **Product Conformance** | **Product meets current ASTM D6319 and is manufactured in accordance with a quality management that conforms to ISO 9001 and ISO 13485.** |
| **Material** | **Nitrile Butadiene Rubber** |
| **Cuff Finishing** | **Beaded** |
| **Color** | **Black** |
| **Surface Finishing** | **Fingers textured** |

| No. | Test Method | Purpose of Testing | Result Summary |
|---|---|---|---|
| 1 | **ASTM D5526** | To determine the degree and rate of anaerobic biodegradation of materials in accelerated landfill conditions. This is a long term test that **replicates the landfill environment** of low heat, high pressure, limited oxygen, no light and low moisture. | **20%** biodegradation in **202 days.*** |
| 2 | **ASTM D5511** | To determine the degree and rate of anaerobic biodegradation of materials in high-solids anaerobic-digestion conditions, which **replicates the anaerobic digester or landfill bioreactor environment.** | **90%** biodegradation in **700 days.*** |

| | | | | |
|---|---|---|---|---|
| **Features** | | | | |
| Powder free, fingertip textured, ambidextrous, standard cuff, black colour | | | | |
| **Physical Dimensions** | | | | |
| Length (mm) | ≥ 230 | Median ≥ 230 | ≥ 230 | Median ≥ 240 |
| Palm (centre of palm) (mm) | ≥ 0.10 | Median ≥ 0.10 | 0.10 ± 0.02 | Median 0.07 ± 0.02 |
| Finger (13mm ± 3mm from tip) | 0.12 ± 0.03 | Median 0.12 ± 0.03 | 0.12 ± 0.02 | Median 0.12 ± 0.02 |
| **Physical Properties** | | | | |
| **Tensile strength (MPa)**<br>Before ageing<br>After ageing | <br>≥ 18<br>≥ 16 | <br>N/A<br>N/A | <br>≥ 18<br>≥ 16 | <br>N/A<br>N/A |
| **Elongation (%)**<br>Before ageing<br>After ageing | <br>≥ 500<br>≥ 400 | <br>N/A<br>N/A | <br>≥ 500<br>≥ 400 | <br>N/A<br>N/A |
| **Median Force at Break (N)**<br>Before ageing<br>After ageing | <br>N/A<br>N/A | <br>≥ 6<br>≥ 6 | <br>N/A<br>N/A | <br>≥ 6<br>≥ 6 |