# NITRILE MEDICAL EXAMINATION GLOVES

STRATA

**POWDER-FREE • TEXTURED FINGERTIPS • CHEMOTHERAPY DRUG TESTED • FENTANYL RATED • BLUE**

## 2053X

Caracal x PRIMED Strata Nitrile Examination Gloves maintain an efficient balance of comfort, protection, and durability for an unparalleled user experience. Maximum dexterity and tactile sensitivity are achieved using the latest nitrile technology, while exceeding medical grade standards for hand protection and safety requirements.

## PROTECTION STANDARDS

| | |
|---|---|
| **ASTM D6319** | Standard Specification for Nitrile Examination Gloves for Medical Application. |
| **ASTM D6978** | Standard Practice for Assessment of Resistance of Medical Gloves to Permeation by Chemotherapy Drugs. |
| **ASTM F1671** | Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Blood-Borne Pathogens Using Phi-X174 Bacteriophage Penetration as a Test System. |

| SKU | SIZE | GLOVES/BOX | BOXES/CASE | GLOVES/CASE |
|---|---|---|---|---|
| 20531 | XS | 250 | 10 | 2500 |
| 20532 | S | 250 | 10 | 2500 |
| 20533 | M | 250 | 10 | 2500 |
| 20534 | L | 250 | 10 | 2500 |
| 20535 | XL | 250 | 10 | 2500 |

### ① Low-Profile Nitrile Technology

- Feel confident in the ability to maintain tactile sensitivity for intricate and precise tasks while notcompromising material strength.

### ② Motion Enhancing Fit

- Natural fit and feel conform to the user's hands to provide exceptional dexterity.

### ③ Full Micro Texturing and Elevated Fingertip Texturing

- Enhances grip in wet and dry conditions when handling small instruments and sensitive tasks.

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## TECHNICAL DATA

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| TEST TYPE | TEST METHOD | TEST DETAILS | ASTM D6319 REQUIREMENT | CARACAL 2053X TYPICAL RESULTS |
|---|---|---|---|---|
| Physical Properties | **Thickness according to ASTM 3767** — Standard Practice for Rubber-Measurements of Dimensions | Measurement of the thickness of the glove materials at the finger and palm. | **Finger:** 0.05mm min.<br>**Palm:** 0.05mm min. | **Finger:** 0.11mm.<br>**Palm:** 0.06mm. |
| | **Length according to ASTM 3767** — Standard Practice for Rubber-Measurements of Dimensions | Measurement of the total length of the glove. | 230mm min. | 254mm |
| | **Elongation according to ASTM D412** — Standard Test for Vulcanized Rubber and Thermoplastic Elastomers | Measurement of the stretchability of the material. This test shows the breaking point of the material when it is stretched. | **Before Aging:** 500%<br>**After Aging :** 400% | **Before Aging:** 575%<br>**After Aging:** 520% |
| | **Tensile Strength according to ASTM D412** — Standard Test for Vulcanized Rubber and Thermoplastic Elastomers | Measurement of the amount of force applied to the material before it breaks. The higher tensile strength the greater force it takes to break a material of the same thickness | **Before Aging:** 14 MPa<br>**After Aging:** 14 MPa | **Before Aging:** 22 MPa<br>**After Aging:** 23 MPa |
| | **Water Leak according to ASTM D5151** — Detection of Holes in Medical Gloves | Uses a water leak test to determine the amount of holes in gloves. The lower the AQL level the better quality of gloves. | **AQL:** 2.5 | **AQL:** 1.0 |
| | **Powder Residue according to ASTM 6124** — Residual Powder on Medical Gloves | Determines the amount of residual powder on the glove material. A powder-free glove should have less than the ASTM minimum to be able to meet the standard. | <2 mg | <2 mg (Pass) |
| Biocompatibility | Sensitization according to ISO 10993 - 10 | Measures the level of potential dermal irritation from the glove. | N/A | Pass |
| | Primary Skin Irritation according to ISO 10993 - 10 | Measures the level of adverse dermal response from contact with the glove material over a period of time. | N/A | Pass |
| Viral Penetration | **Viral Penetration according to ASTM F1671** — Penetration by Bloodborne Pathogens Using Phi-X174 Bacteriophage | Measurement of the resistance of the glove material to potentially infectious body fluids breaking through the material. | Pass | Pass |
| Chemotherapy Drug Permeation | Chemotherapy Drug Permeation according to ASTM D6978 | Measure the time it takes for a chemotherapy agent to permeate through the glove material. | N/A | **2053X Series glove has been tested to Chemotherapy Drugs as per ASTM D6978.** *Details for chemicals tested are available upon request.* |

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## CHEMOTHERAPY DRUG RESISTANCE TESTING

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**2053X**

**ASTM D6978**:
Standard Practice for Assessment of Resistance of Medical Gloves to Permeation by Chemotherapy Drugs

| DRUG NAME | CONCENTRATION TESTED | BREAKTHROUGH TIME IN MINUTES |
|---|---|---|
| **5-Azacytidine** | 25 mg/ml (25,000 ppm) | >240 |
| **Carboplatin (Paraplatin)** | 10 mg/ml (10,000 ppm) | >240 |
| **Carmustine (BCNU)** | 3.3 mg/ml (3,300 ppm) | 23.3 |
| **Cisplatin** | 1.0 mg/ml (1,000 ppm) | >240 |
| **Cyclophosphamide** | 20 mg/ml (20,000 ppm) | >240 |
| **Dacarbazine** | 10 mg/ml (10,000 ppm) | >240 |
| **Doxorubicin** | 2.0 mg/ml (2,000 ppm) | >240 |
| **Epirubicin (Ellence)** | 2.0 mg/ml (2,000 ppm) | >240 |
| **Etoposide (Toposar)** | 20.0 mg/ml (20,000 ppm) | >240 |
| **Fluorouracil (Adrucil)** | 50.0 mg/ml (50,000 ppm) | >240 |
| **Gemcitabine (Gemzar)** | 38 mg/ml (38,000 ppm) | >240 |
| **Ifosfamide** | 50.0 mg/ml (50,000 ppm) | >240 |
| **Irinotecan** | 20.0 mg/ml (20,000 ppm) | >240 |
| **Methotrexate** | 25 mg/ml (25,000 ppm) | >240 |
| **Mitomycin C** | 0.5 mg/ml (500 ppm) | >240 |
| **Mitoxantrone** | 2.0 mg/ml (2,000 ppm) | >240 |
| **Oncovin (Vincristine Sulfate)** | 1.0 mg/ml (1,000 ppm) | >240 |
| **Oxaliplatin** | 5.0 mg/ml (5,000 ppm) | >240 |
| **Paclitaxel (Taxol)** | 6.0 mg/ml (6,000 ppm) | >240 |
| **Thiotepa (THT)** | 10.0 mg/ml (10,000 ppm) | 58.2 |
| **Vincristine Sulfate** | 1.0 mg/ml (1,000 ppm) | >240 |
| **Vinorelbine** | 10.0 mg/ml (10,000 ppm) | >240 |
| **Fentanyl Citrate Injection** | 100mcg/2mL | >240 |

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