

PROSENSO™ BIODEGRADABLE

Nitrile Examination Gloves



WHAT IS PROSENSO™ BIODEGRADABLE?

PROSENSO™ Biodegradable is a brand new and revolutionizing nitrile glove product. The gloves are made by a new and unique NBR (Nitrile Butadiene Rubber) formula that enables the gloves to biodegrade by microbial action in aerobic and anaerobic environments on landfills.

HOW DOES IT WORK?

The biodegradation occurs in a two-step process. Firstly, the surface of the gloves undergoes erosion, by which the outermost layer of the gloves breaks down. In the second step, microorganisms secrete enzymes that chemically break down the remainings of the glove. The resulting product is a nutrient-rich, water-insoluble food source that the microbial population can readily consume.

HOW FAST DOES THE GLOVES BIODEGRADE?

To determine how much faster our gloves biodegrade compared to regular nitrile gloves, we tested our gloves using ASTM D5511, the standard method for determining the biodegradability of plastics. The test (carried out by Eden Research Laboratory in Albuquerque*) shows that PROSENSO™ Biodegradable Nitrile Gloves break down 43% in 513 days. The control group showed that this was significantly faster than regular nitrile gloves.

In other words, under optimal conditions, PROSENSO™ Biodegradable Nitrile Gloves fully biodegrade in less than three and half years, whereas ordinary nitrile gloves would take more than 100 years.

WHAT ARE THE SUGGESTED USE-CASES FOR THESE GLOVES?

PROSENSO™ Biodegradable Nitrile Gloves can be used in all the scenarios where you would typically use regular nitrile gloves. That means that the gloves are certified for medical use according to ASTM6319, safe to use with all foods, and finally, they are rated against chemo and fentanyl.

HOW DO I BUY?

PROSENSO™ Biodegradable Nitrile Gloves are manufactured in Malaysia for Eastwest Medico ApS, Denmark. For inquiries, reach out to Niels Kristian Bitsch at +45 60174615 / nkb@ewmedico.com or Michael Kastrupsen at +45 40275888 / mk@ewmedico.com

*The test was conducted in an oxygen free environment at 37C under ideal conditions, with normal nitrile gloves as control. These ideal conditions will result in accelerated biodegradation rate to efficiently evaluate the biodegradation potential.