

## **EZ 100 RESPIRATOR-MASK**

The EZ 100 reusable respirator mask by Ezonyx Bio Technologies, Inc. permits your breath to be filtered 99.88% both on the inhale and the exhale protecting you and the people around you. The EZ 100 mask has mouth and straw portals to enable you to eat and drink while minimizing or eliminating exposure. It performs as an oxygen mask in conjunction with oxygen tubes in the hospital, in the field and for home and nursing home care. The EZ 100 mask's three filters make it easy to breathe and provide anti-fog protection for your glasses. The face sizing is adjustable, and as always it is made from our EarthPCB eco-friendly sustainable-renewable bioplastic materials. The mask is easy to clean and sanitize as it is dishwasher safe and microwavable.

The EZ 100 mask functions to protect the user, and others around the user by the user, from toxic air filled with bacteria/viruses, smoke, dust, and others harmful air borne particles, as well microplastic particles. The reusable mask is made from sustainable, renewable biopolymer materials that consist of Earth Plant Compostable and Biodegradable Biopolymers. This respirator mask is a universal invention that can be used as a medical oxygen mask that includes an integrated multi-layer filter element, an inhale filtered portal and a filtered exhalation valve that filter users breathe when breathing. This will protect others in the area of the mask wearer in the event they are infected with a virus such as COVID-19 or Sars or other viruses or bacteria to come in the future.

The mask is made of a highly soft plant-based material that does not irritate the user's facial. Additionally, there is reduction ring gasket that is able to snap on to the inner surface of the mask allowing the mask to universally fit different size faces. The mask has multiple portals that allow the user to drink from a straw, through a V-Shape Friction portal that will make an air-tight seal around any dimension-diameter straw, and a sliding door portal that users can open to

allow for a direct conversation or to eat a meal. Air portals are positioned along the sides and front of the mask, thereby forming breathable filters along the surface of the mask, such that a user can draw breathable filtered air from the sides and front area of the mask and this design provides anti-fog protection for users wearing reading or sun glasses. When the mask is worn, these air breathable filters also filter the exhaled breath of the mask user which is critical in protecting health care workers and others from a virus if the mask user is infected for example with COVID-19 Virus. The invention is a respirator mask with optimum face seal bull-nosed edges that touch the surface of the face to create a superb air-tight seal.

The EZ 100 mask has multiple filtering face mask portals to prevent well documented inner face seal leaks which have occur in other masks. The EZ 100 differs from other masks as it filters inhaled air to the wearer and exhaled breath of the wearer, and the face reduction ring gasket can accommodate universal face sizes. The EZ 100 mask is constructed with sustainable, renewable heat activated thermoplastic copolymer that enable the mask to have contact with the user's skin while not depositing micro plastic toxic particles onto the skin. Breathing in microplastic particles from other masks made from PVC, PET, PETE or even cloth mask material is harmful to human health.