

# Recycling Program

## About Vitacore

Vitacore is a Canadian manufacturer of medical-grade respirators and surgical masks with the goal to supply high-quality products to frontline workers during the Covid-19 pandemic and for years to come.

## Waste Facts

In Canada, it is estimated that 63,000 metric tons of PPE will be disposed of through the Covid-19 pandemic

Nationwide, 50,000 masks are disposed of every second

Currently, less than 1% of existing polypropylene is ever recycled

More than 10% of plastics end up being landfilled in Canada, with the rest ending up in the ocean

In North America, demand for recycled polypropylene is estimated at over 700 million pounds a year

## Our Vision

Since the onset of the Covid-19 pandemic, Canada, and the world, have seen a dramatic increase in single-use, disposable PPE usage. Canada is anticipating over 63,000 tons of single-use PPE being disposed of and ending up in landfills. Currently, the only other stream existing for PPE waste is incineration which requires high energy inputs and numerous negative outcomes. This volume of waste poses significant challenges to our existing disposal methods, the environment, and all Canadians.

We saw this as a challenge. Already as the first company to manufacture and produce respirators within Canada to receive a Health Canada IO, we have now sought to become the first company to create and establish its own PPE recycling program.

## Recycling Program

The goals of this program are three-fold:

Firstly, to provide our customers with an alternative model of disposal that minimizes the number of our products ending up incinerated or in the landfill; Secondly, to develop a recycling model for products that are generally not recycled or pose challenges to being for the process that leads to further industry growth; and thirdly, where possible, work towards achieving sustainable, green, and environmentally friendly initiatives that benefit current and future generations of Canadians.

Since its inception, our recycling program has generated interest and attention from various companies, institutions, and levels of government across Canada. We are excited and proud to partner with a wide range of groups and people who share our vision of a more sustainable Canada.



## Public Recycling Programs

### COMMUNITY BINS

Community bins can be placed in buildings, businesses, and communities for people to dispose of their used masks and respirators. When filled up, they can be safely closed and shipped to one of our recycling facilities, where the contents are recycled.

### INDUSTRIAL BINS

For additional information about this program, please contact us at Vitacore.ca.

### BULK BAGS

The bulk bag program is built for those that generate a large amount of PPE and are looking for a solution of shipping pallets.

### Future Plan

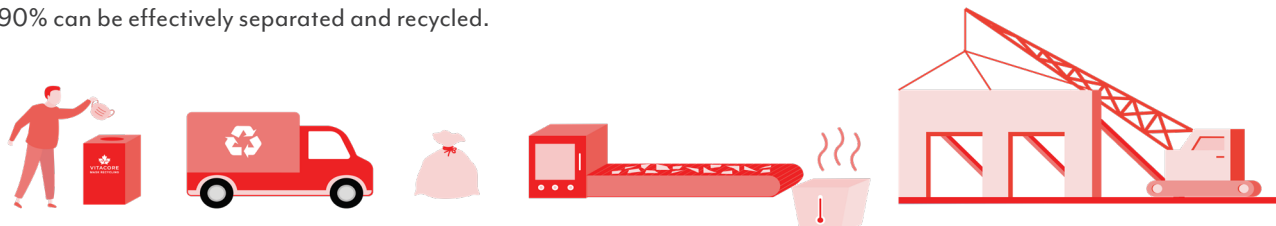
Vitacore anticipates that by 2022, their participating bins will have collected and recycled 50,000 kg of PPE waste from various landfills. Equivalent to over 14 million masks and respirators.



## How We Recycle

1. Masks are worn and disposed of in our Vitacore bin
2. Collected masks are removed from the bin and transferred into the bulk bag
3. When full, the bulk bag is shipped to our nearest recycling facility
4. Contents are removed, sanitized, and processed
5. Processing allows the various components to be isolated and sorted before pelletization
6. Polypropylene pellets are then used to make other products such as building materials, concrete reinforcing fibres, and textiles

Our respirators and masks are specifically designed and manufactured using materials that maximize recyclability: up to 90% can be effectively separated and recycled.



## Cost Breakdown - Bulk Bag

### SETUP PACKAGE

- 1 Bulk bag + 1 Replacement
- 1 Vitacore Bin
- 1 Insert
- Two-Way Shipping
- User guide
- Customer support

### ADDITIONAL BINS

- 1 Vitacore Bin
- 1 Insert

	Dimensions	Capacity	
<b>Bulk Bag</b>	89 x 89 x 107 cm (35 x 35 x 42 in)	20,000 Masks	<b>\$985</b>

**Total:** **\$40/bin**