PROTECTIVE INDUSTRIAL PRODUCTS

3R™ SUSTAINABILITY PROGRAM

REDUCE - REUSE - RECYCLE

www.pipusa.com

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Reducing the volume of solid waste we produce is by far the most effective way to reduce the flow of garbage into landfills. We have to think about how we can **REDUCE, REUSE** and **RECYCLE** PPE. This includes reducing packaging wherever possible. This is why we're calling this the PIP® 3R™ Sustainability Program.

PIP® LEADS THE WAY

Not all PPE can be Reduced, Reused or Recycled the same way. But by working with PIP® and its partners, we can be sure to find the optimal solution.

PIP® 3R™ SUSTAINABILITY PROGRAM KEY PLAYERS

- SUPPLIERS
- DISTRIBUTORS
- PPE USERS

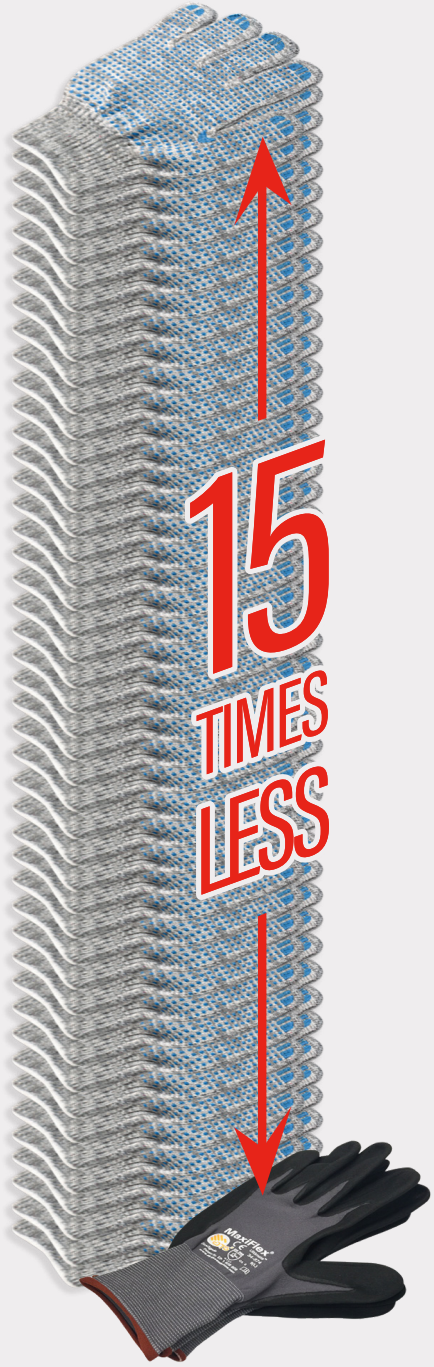
REDUCE

THE EASIEST WAY TO REDUCE IS TO OPT FOR PRODUCTS THAT ARE MORE DURABLE AND LAST LONGER.

In a recent PIP® use case, an American-based company known as one of the world's largest metal producers with more than $5 billion in annual sales switched from cotton canvas gloves to more durable, longer-lasting coated seamless knit gloves.

THE RESULTS SPEAK FOR THEMSELVES

	COTTON CANVAS	COATED SEAMLESS KNIT	SAVINGS
ANNUAL PRODUCT USAGE	434,700 pairs	28,278 pairs *Each glove lasted 15 times longer*	**406,422 Fewer pairs** *Less in landfills*
ANNUAL PRODUCT SPENDING	Over $260,000	$100,000 *Less gloves purchased*	**$160,000** *Saved cost*
ON-HAND INVENTORY UNITS	16,720 pairs *over 2 pallets*	1,088 pairs *7-8 cases*	**15,632 Fewer pairs** *Less inventory on-hand*
DUMPSTER DISPOSAL FREQUENCY *20 yard dumpster*	5 disposals/year	0.6 disposals/ year	**Over 4 disposals/year** *Save $4,000/year*



REUSE

THE SIMPLEST WAY TO REUSE IS TO LAUNDER.

We understand that laundering may not be for everyone. It requires commitment and a process to ensure that gloves are sorted, laundered and resorted efficiently. PIP® Regional Sales Managers can work with you to develop optimal procedures to ensure gloves are reused effectively.

FACTORS TO CONSIDER:

1. IN-HOUSE vs. LAUNDERING SERVICE

Space considerations are important not only for equipment but for collecting, sorting, cleaning and redistributing the gloves. Industrial laundry equipment is more heavy-duty and usually requires special plumbing and electrical. Other factors to consider are the contribution to effluent water and extra staff that may be required for a complete laundering operation.

2. QUALITY vs. COST

Reducing the cost of use and cost of product at the same time may be challenging. Consider this when purchasing less expensive gloves made from blended yarns that contain glass or wire cores. They are inherently more susceptible to breakage during laundering and can result in skin irritation for wearers.

GLOVE LAUNDERING INSTRUCTIONS

Dyneema® can be washed and even bleached for food applications without affecting the specific properties of Dyneema®. However, Dyneema® cannot withstand temperatures—wet or dry—over 291°F/144°C. Standard detergents, ammonium, sodium hydroxides and hydrochloric acid are not known to affect the performance of the Dyneema® fibers. This enables you to wash and re-use the gloves many times over.

DuPont™ Kevlar®

Kevlar® remains very stable despite repeated laundering. Kevlar® can be washed over and over with no effect on shrinkage, weight loss or changes in tensile strength. Kevlar® is resistant to many chemicals and solvents, with the exception of strong acids, bases oxidizers and bleach.

FOR DETAILED INFORMATION ON LAUNDERING

Go to www.pipusa.com

RECYCLE

PIP® IS AMONG THE FIRST TO INTRODUCE A TRUE RECYCLING PROGRAM FOR CUSTOMERS WHO WANT TO GO THE EXTRA MILE IN ENSURING THAT CONSUMED PPE IS RECYCLED INSTEAD OF FILLING UP MUNICIPAL DUMPS.

HOW DOES IT WORK? Contact your PIP® Sales Representative or download our TerraCycle® brochure. By working in partnership with recycling specialist, TerraCycle®, we've developed a turn-key approach to PPE recuperation by making boxes available to you for plant or site employees to fill with used PPE. TerraCycle® manages the whole process from pickup to the delivery of a new box. Boxes are purchased by participating PIP® distributors.

Easypak recycling boxes

510-3230

IN COLLABORATION WITH TERRACYCLE®

TerraCycle® is Eliminating the Idea of Waste® by recycling what seems "non-recyclable." Whether it's ear plugs, gloves or safety eyewear from a manufacturing facility, TerraCycle® can collect and recycle almost any form of waste. PIP's partnership with TerraCycle®, in conjunction with partnering with distributors and end-users, can help divert millions of pounds in waste from landfills and incinerators each month.

STYLE NUMBER	DESCRIPTION	WHAT CAN YOU RECYCLE
510-3100	Disposable Gloves - Zero Waste Box™	Nitrile Rubber Gloves | Latex Rubber Gloves | PVC Gloves Polyethylene Gloves | Vinyl Gloves
510-3165	Ear Plugs - Zero Waste Box™	Ear Plugs Made Of PU | Ear Plugs Made of Silicone Ear Plugs Made of Foamed PVC | Ear Plugs Made of Latex Rubber
510-3210	Safety Equipment and Protective Gear - Zero Waste Box™	Beard nets | Disposable (latex, nitrile, and vinyl) gloves | Ear plugs Non-woven disposable garments | Non-woven disposable masks Non-woven hair nets | Safety glasses and googles
510-3230	Seamless Knit Gloves - Zero Waste Box™*	Seamless Knit Uncoated Gloves | Seamless Knit Coated Gloves

Estimated - Each box holds about 40 lbs of waste
** Cannot contain metal or steel*

EAR PLUGS AND DISPOSABLE GLOVES are mechanically and/or manually separated into the various polymers that make them up. The separated plastics then undergo extrusion and pelletization to be molded into new recycled plastic products.

EYEWEAR is mechanically and/or manually separated into metals, fibers and plastics. Metals are smelted so they may be recycled. Plastics undergo extrusion and pelletization to be molded into new recycled plastic products.

FABRIC ON COATED GLOVES is cut away and recycled, whereas the coated fabric that is unable to be separated from the nitrile or rubber, is cryogenically ground up. The resulting material is used as filler for auto plastics and certain lumber applications.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