

PIP

EcoSeries™

PRODUCT SOLUTIONS

www.pipusa.com

**ECO Series™**







SUSTAINABILITY PROGRAM

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



As a global provider of PPE, PIP® is committed to continually identifying opportunities to minimize our environmental footprint to support a more sustainable, safer future. We are focused on leading the way, along with our industrial distributors, by offering products and solutions that minimize our impact while maximizing protection against occupational hazards.

Product Circularity markings on our website follow the path of the PIP® 3R™ Sustainability Program of reduce, reuse, and recycle.

These designations help describe the environmental impact of our portfolio.



DEVELOPING
PRODUCTS IN A
SUSTAINABLE WAY



REDUCE

BEGINNING OF LIFE -

MADE FROM BIO-BASED MATERIALS


PIP® has a heightened focus on developing products in a sustainable way while remaining compliant with globally recognized industry standards. More and more gloves and hi-vis garments are made with recycled fibers.

- > By working with progressive manufacturers, such as DSM Dyneema®, we've introduced cut resistant gloves and sleeves using yarns from the world's first bio-based HMPE fiber technology.
- > PIP® also pioneered the use of recycled P.E.T. water bottles - shredded and extruded to make fibers and yarns for our G-tek® ECO Series™ gloves - with some of the newest gloves containing up to 70% of recycled content. These gloves meet the Global Recycled Standard requirements of at least 50% recycled material by weight of the glove.
- > With the launch of ECO Series™ BioSoft™, PIP® leads the industry with the world's first sustainable bio-based ear plugs.





OFFERING PRODUCTS
THAT MINIMIZE
ENVIRONMENTAL IMPACT



LEADING PROGRAMS
TO HELP REDUCE
THE IMPACT OF WASTE



REUSE

EXTENDED LIFE -

REUSABLE/ LAUNDERABLE

Reusing and laundering products not only reduces cost, but it also reduces the amount of waste in landfills. PIP® knit gloves come with laundering instructions to help extend their life, reduce their total cost of use, and minimize environmental impact. The PIP® Sales team can help develop optimal procedures to ensure gloves are reused effectively.

- > G-Tek® VR-X™ reusable work gloves with an enhanced barrier replace the use of disposable gloves in industrial settings helping to reduce unrecyclable waste.
- > Grippaz® extended-use disposable gloves last up to 5 times longer than single-use disposable gloves and have been shown to eliminate up to 30% of waste.
- > Uniform Technology® launderable protective garments used in controlled environments, provide high-performing sustainable solutions with an up to 10-to-1 use ratio when compared to single-use or disposable spun-bonded polyester garments.



RECYCLE

END OF LIFE -

RECYCLABLE VIA TERRACYCLE® PROGRAM

PIP® is working to help reduce the impact of waste by recycling what is seemingly un-recyclable. In collaboration with TerraCycle®, we provide an easy and convenient way of collecting used PPE at a manufacturing facility or job site and turning it into a raw material for multiple uses.

- > An Easypak Zero-Waste Box™ is available to recycle disposable gloves, ear plugs, eyewear, and seamless knit gloves. The separated plastics undergo extrusion and pelletization to be molded into new recycled plastic products. Metals are smelted so they may be recycled. And, fabric on coated gloves is cut away and recycled. The remaining coated glove material is cryogenically ground up and used as filler for auto plastics and certain lumber applications.
- > This partnership with TerraCycle®, working with our distributors and PPE users, can help reduce millions of pounds of waste from ending up in landfills and incinerators each month.





CO₂



USING THE
FIRST-EVER
BIO-BASED FIBER



As a global provider of safety products to industrial markets, we understand the importance of reducing waste – not only as a means of reducing cost, but also as a way of reducing the environmental impact. Our new G-Tek® ECOSeries™ line of coated gloves uses the latest in bio-based and recycled fiber technologies.

DSM's bio-based ultra-high molecular weight polyethylene Dyneema® fiber delivers the same performance as conventional Dyneema® fibers, but with a lower carbon footprint. This innovative technique utilizes the mass balance approach and further reduces our reliance on fossil fuel-based resources.

CARBON FOOTPRINT COMPARISON

Bio-Based Dyneema® outperforms all competing alternatives

EQUIVALENT CO₂ EMISSIONS PER 10,000 PAIRS OF GLOVES

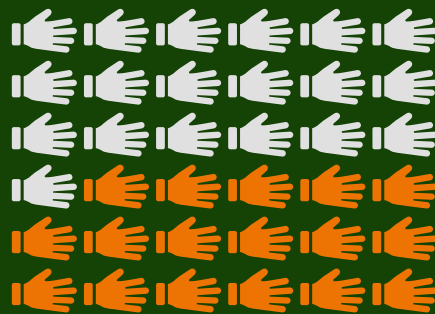
Glove made with
Generic HMPE



41,888 lbs

6.75x increase over bio-based Dyneema®

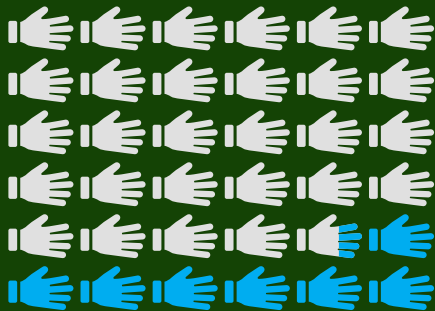
Glove made with
Aramid



37,479 lbs

6x increase over bio-based Dyneema®

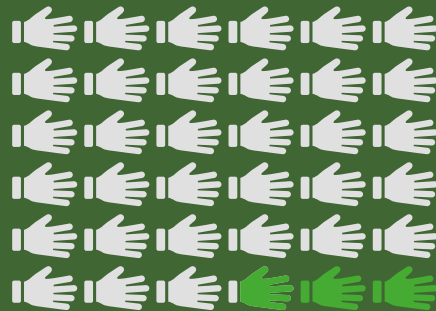
Glove made with
Dyneema® fiber



16,094 lbs

2.5x increase over bio-based Dyneema®

Glove made with
Bio-based Dyneema® fiber



6,173 lbs



BIO-BASED SUSTAINABLE FIBERS



4
ABRASION



19-D322
XS-2XL

- Bio-based Dyneema® Diamond 2.0 blended shell is lightweight and provides excellent dexterity, tactile sensitivity
- Dyneema® bio-based fibers reduces 450g of CO₂ emissions per pair when compared to traditional Dyneema® fibers
- Dyneema® Diamond 2.0 provides higher cut performance than traditional Diamond technology
- Polyurethane coating provides tactile grip in dry and slightly oily conditions
- Also available as a vend-ready solution (19-D322V)



3
ABRASION



19-D324
XS-2XL

- Bio-based Dyneema® Phoenix blended shell is lightweight and provides excellent dexterity and tactile sensitivity
- Dyneema® bio-based fibers reduces 450g of CO₂ emissions per pair when compared to traditional Dyneema® fibers
- Polyurethane coating provides tactile grip in dry and slightly oily conditions
- Knit wrist helps prevent dirt and debris from entering the glove



S13ECO/PE5
18"

- Bio-based Dyneema® Diamond 1.0 blend provides excellent protection against cuts, lacerations and abrasions
- Lightweight sleeves are cool against the skin for greater comfort
- Elastic ends for a snug fit and to eliminate debris from entering
- Sleeve stamped with ANSI Cut Level A5 for ease in selection and sorting
- Other lengths available



S13ECO/PE5-T
18"

- Bio-based Dyneema® Diamond 1.0 blend provides excellent protection against cuts, lacerations and abrasions
- Integrated thumb hole allows protection all the way to the knuckle without sacrificing dexterity
- Sleeve stamped with ANSI Cut Level A5 for ease in selection and sorting
- Other lengths available

Hand Protection

STYLE	CUT	EN388	COATING	COATING COVERAGE	COATING COLOR	LINER MATERIAL	LINER COLOR	CONSTRUCTION	GAUGE	SIZES	PROP 65
19-D322	A4	4X42D	Polyurethane	Palm & Fingers	Gray	Dyneema® Diamond 2.0	White	Coated Seamless Knit	13	XS-2XL	⚠️ C
19-D324	A2	4X42B	Polyurethane	Palm & Fingers	Black	Dyneema® Phoenix	White	Coated Seamless Knit	13	XS-2XL	⚠️ C

Arm Protection

STYLE	CUT	PLY	TOP CUFF	BOTTOM CUFF	MATERIAL	COLOR	CONSTRUCTION	STANDARD SIZE
S13ECO/PE5	A5	1	Serged	Straight	Dyneema® Diamond 1.0	Gray	Seamless Knit	18"
S13ECO/PE5-T	A5	1	Serged	Thumb Hole	Dyneema® Diamond 1.0	Gray	Seamless Knit	18"



A4
CUT

6
ABRASION

3
PUNCTURE

EN388
4X42D

19-D320
XS-2XL

- Bio-based Dyneema® Phoenix blended shell is lightweight and provides excellent dexterity and tactile sensitivity
- Dyneema® bio-based fibers reduces 450g of CO2 emissions per pair when compared to traditional Dyneema® fibers
- Polyurethane coating provides tactile grip in dry and slightly oily conditions
- Knit wrist helps prevent dirt and debris from entering the glove



A4
CUT

6
ABRASION

4
PUNCTURE

EN388
4X42D

19-D3400R
XS-2XL

- Bio-based Dyneema® Diamond 2.0 blended shell is lightweight and provides excellent dexterity, tactile sensitivity
- Dyneema® bio-based fibers reduces 450g of CO2 emissions per pair when compared to traditional Dyneema® fibers
- Dyneema® Diamond 2.0 provides higher cut performance than traditional Diamond technology
- Foam Nitrile coatings are breathable and durable, designed with a cell structure that disperse fluids on contact for an improved grip



A4
CUT

6
ABRASION

3
PUNCTURE

EN388
4X42D

19-D334
S-2XL

- Bio-based Dyneema® Phoenix blended shell is lightweight and provides excellent dexterity and tactile sensitivity
- Dyneema® bio-based fibers reduces 450g of CO2 emissions per pair when compared to traditional Dyneema® fibers
- Foam Nitrile coatings are breathable and durable, designed with a cell structure that disperse fluids on contact for an improved grip
- Knit wrist helps prevent dirt and debris from entering the glove



A4
CUT

5
ABRASION

3
PUNCTURE

EN388
3X43D

19-D313
S-XL

- Bio-based Dyneema® Diamond 2.0 blended shell is lightweight and provides excellent dexterity, tactile sensitivity
- Dyneema® bio-based fibers reduces 450g of CO2 emissions per pair when compared to traditional Dyneema® fibers
- Dyneema® Diamond 2.0 provides higher cut performance than traditional Diamond technology
- Latex crinkle coatings feature creases or wrinkles on the surface that are designed to channel fluids away allowing better contact on dry or wet surfaces



A3
CUT

4
ABRASION

3
PUNCTURE

EN388
3X42C

19-D318
XS-2XL

- Bio-based Dyneema® Diamond 2.0 blended shell is lightweight and provides excellent dexterity, tactile sensitivity
- Dyneema® bio-based fibers reduces 450g of CO2 emissions per pair when compared to traditional Dyneema® fibers
- Dyneema® Diamond 2.0 provides higher cut performance than traditional Diamond technology
- Polyurethane coating provides tactile grip in dry and slightly oily conditions



A3
CUT

5
ABRASION

3
PUNCTURE

EN388
4X42C

19-D326
XS-2XL

- Bio-based Dyneema® Phoenix blended shell is lightweight and provides excellent dexterity and tactile sensitivity
- Dyneema® bio-based fibers reduces 450g of CO2 emissions per pair when compared to traditional Dyneema® fibers
- Polyurethane coating provides tactile grip in dry and slightly oily conditions
- Knit wrist helps prevent dirt and debris from entering the glove

STYLE	CUT	EN388	COATING	COATING COVERAGE	COATING COLOR	LINER MATERIAL	LINER COLOR	CONSTRUCTION	GAUGE	SIZES	PROP 65
19-D322	A4	4X42D	Polyurethane	Palm & Fingers	Gray	Dyneema® Diamond 2.0	White	Coated Seamless Knit	13	XS-2XL	⚠️ C
19-D320	A4	4X42D	Polyurethane	Palm & Fingers	Gray	Dyneema® Phoenix	Salt & Pepper	Coated Seamless Knit	13	XS-2XL	⚠️ C
19-D3400R	A4	4X43D	Nitrile	Palm & Fingers	Black	Dyneema® Diamond 2.0	Hi-Vis Orange	Coated Seamless Knit	13	XS-2XL	
19-D334	A4	4X42D	Nitrile	Palm & Fingers	Black	Dyneema® Phoenix	Salt & Pepper	Coated Seamless Knit	13	S-2XL	
19-D313	A4	3X43D	Latex	Palm & Fingers	Blue	Dyneema® Diamond 2.0	White	Coated Seamless Knit	13	S-XL	
19-D318	A3	3X42C	Polyurethane	Palm & Fingers	Black	Dyneema® Diamond 2.0	Blue	Coated Seamless Knit	18	XS-2XL	⚠️ C
19-D326	A3	4X42C	Polyurethane	Palm & Fingers	Black	Dyneema® Phoenix	Gray	Coated Seamless Knit	13	XS-2XL	⚠️ C
19-D324	A2	4X42B	Polyurethane	Palm & Fingers	Black	Dyneema® Phoenix	White	Coated Seamless Knit	13	XS-2XL	⚠️ C

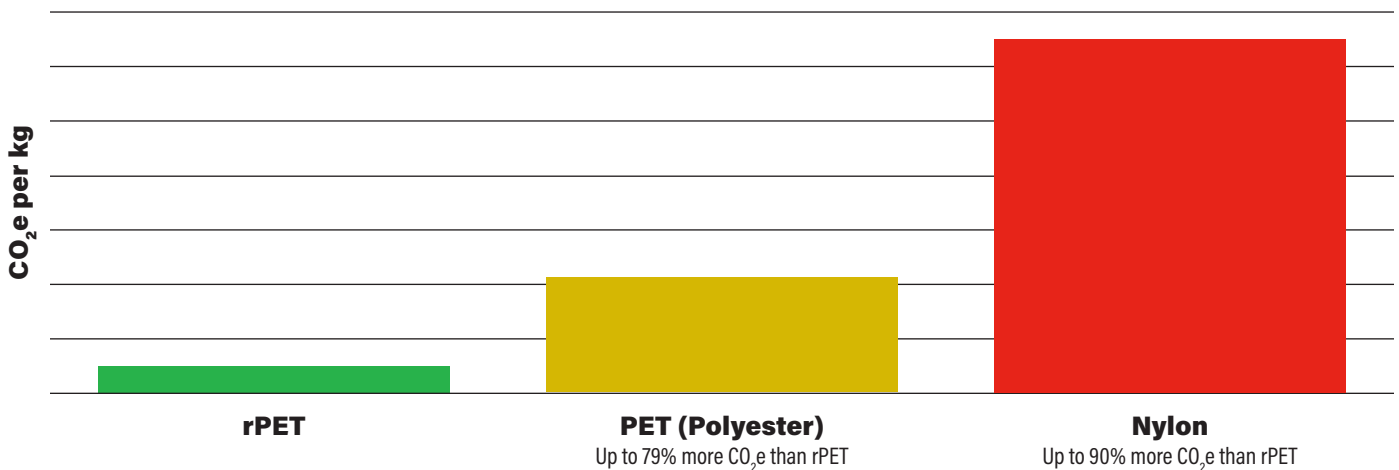


SEAMLESS KNIT GLOVES WITH **RECYCLED FIBERS**

Taking our innovative platform to the next level, we use recycled P.E.T. water bottles – shredded and extruded as a fiber – and recycled polyester yarns to create comfortable and cool general purpose glove liners. These products meet the Global Recycled Standard requirements of at least 50% recycled material by weight of the glove.



Carbon footprint comparison





GLOVES MADE WITH RECYCLED FIBERS



3
ABRASION
 EN388

3131X

31-131R XS-2XL

- Seamless knit blended liner fibers made of 90% recycled P.E.T. water bottles and 10% Elastane for comfort, dexterity and breathability
- Each pair is made from two (500 mL) P.E.T water bottles and reduces 29.4g of CO₂ emissions per pair
- Polyurethane coating provides tactile grip in dry and slightly oily conditions
- Knit wrist helps prevent dirt and debris from entering the glove
- OEKO-TEX® approved for socially responsible manufacturing with no harmful substances



3
ABRASION
 EN388

4121X

31-330R XS-2XL

- Seamless knit blended liner fibers made of 90% recycled P.E.T. water bottles and 10% Elastane for comfort, dexterity and breathability
- Each pair is made from two (500 mL) P.E.T water bottles and reduces 33.8g of CO₂ emissions per pair
- Foam Nitrile coating is compatible with light oils and provides a good grip
- Knit wrist helps prevent dirt and debris from entering the glove
- OEKO-TEX® approved for socially responsible manufacturing with no harmful substances



3
ABRASION
 EN388

4121X

31-530R XS-2XL

- Seamless knit blended liner fibers made of 90% recycled P.E.T. water bottles and 10% Elastane for comfort, dexterity and breathability
- Each pair is made from two (500 mL) P.E.T water bottles and reduces 32.7g of CO₂ emissions per pair
- Nitrile MicroSurface coating provides a superior grip in dry, wet and oily conditions
- Knit wrist helps prevent dirt and debris from entering the glove
- OEKO-TEX® approved for socially responsible manufacturing with no harmful substances



A2
CUT
4
ABRASION
 EN388

2X42B

41-8150R M-2XL

- Seamless knit blended fibers made of 55% recycled plastic and acrylic fibers for comfort, dexterity and breathability
- Each pair is made from five (500 mL) P.E.T water bottles and reduces 70g of CO₂ emissions per pair
- Latex MicroSurface coatings are impermeable providing an elevated grip in dry and oily conditions
- Acrylic liner quickly evaporates moisture from the skin and provides excellent thermal insulation
- Extra softness for non-chafing comfort in wet conditions



IM2270T One Size

- 100% Polyester seamless knit made of recycled plastic
- 7G Polyester knit provides good abrasion resistance
- Soft seamless knit provides non-chafing comfort
- Polyester is excellent for use in applications where low-linting needs are required, such as: Food Service, Inspection and Painting

55 - 70%
 RECYCLED
 MATERIAL
 BY WEIGHT

STYLE	CUT	EN388	COATING	COATING COVERAGE	COATING COLOR	LINER MATERIAL	LINER COLOR	CONSTRUCTION	GAUGE	SIZES	PROP 65
31-131R	-	3131X	Polyurethane	Palm & Fingers	Gray	Recycled Material	White	Coated Seamless Knit	13	XS-2XL	
31-330R	-	4121X	Nitrile Foam	Palm & Fingers	Gray	Recycled Material	White	Coated Seamless Knit	13	XS-2XL	
31-530R	-	4121X	Nitrile MicroSurface	Palm & Fingers	Gray	Recycled Material	White	Coated Seamless Knit	13	XS-2XL	
41-8150R	A2	2X42B	Latex MicroSurface	Palm & Fingers	Black	Recycled Material + Acrylic	Brown	Coated Seamless Knit	10	M-2XL	
IM2270T	-	-	Uncoated	-	-	Cotton/Poly Recycled Material	Blue	Uncoated Seamless Knit	7	One Size	

THE WORLD'S FIRST SUSTAINABLE BIO-BASED EAR PLUGS

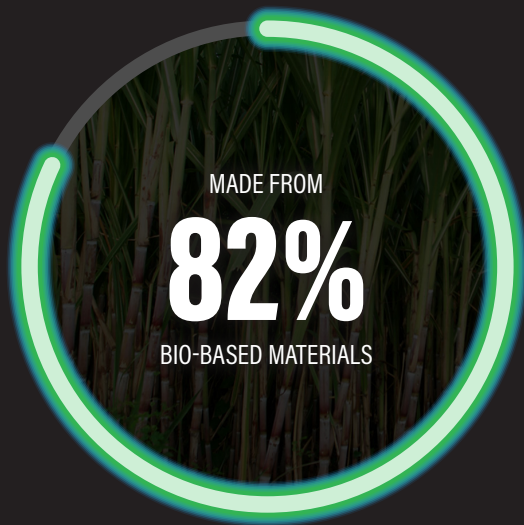
PIP® understands the importance of reducing waste to lower costs and minimize environmental impact. Our new, sustainable ECOSeries™ BioSoft™ ear plugs are the first to be made from bio-based technologies.

BioSoft™
SUSTAINABLE BIO-BASED TECHNOLOGY

The BioSoft™ ear plug foam material provides the same fit and performance as conventional polyurethane or PVC materials, but with a lower carbon footprint. This innovative technology not only reduces emissions during manufacturing, but it contains bio-based materials making BioSoft™ more environmentally friendly at end of use.

BEGINNING OF LIFE

> Made from 82% bio-based materials



REPLENISHABLE SOURCE



SUSTAINABLE MATERIAL



CO₂ EMISSION REDUCTION

END OF LIFE

> **BioSoft™ ear plugs will decompose 76% in 180 days***. Traditional PU or PVC ear plugs will remain unchanged.

	BioSoft™	PU OR PVC
DAY 1		
DAY 180		

* When tested in accordance with EN 13432 - in an aerobic environment (air/oxygen present)

EXCEPTIONAL PERFORMANCE AND COMFORT

MEGA

BULLET™ BIOSOFT™



32
NRR

Tapered shape for easy installation

- Soft, smooth, low pressure for excellent comfort
- Bio-based materials made in North America
- All parts—the earplug, the cord (BSF-30 only), the stem, even the bag—are bio-based
- Metal detectable (blue) recommended for use in the food industry
- Independently tested NRR 32 / SNR 38

ATTENUATION CHART (ANSI S3. 19-1974, Canada Class A(L))

FREQUENCY	125	250	500	1000	2000	3150	4000	6300	8000
MEAN ATTENUATION (dB)	40.3	39.8	41.9	40.6	39.7	45.1	46.6	47.8	47.2
STANDARD DEVIATION (dB)	5.5	5.4	5.8	3.8	2.6	4.1	3.7	3.5	4.5

	BSF-1	BSF-1B	BSF-30	BSF-D
USE	Single	Single	Single	Single
CORDING	Uncorded	Uncorded	Corded	Corded
MATERIAL	BioSoft™ Foam	BioSoft™ Foam	BioSoft™ Foam	BioSoft™ Foam
SIZE	Standard	Standard	Standard	Standard
SHAPE	Bullet	Bullet	Bullet	Bullet
COLOR	Green/White	Green/White	Green/White	Blue
DETECTABLE	No	No	No	Yes
PAIR PER BOX	200	500	100	100

PINCH FIT™ BIOSOFT™



32
NRR

Unique stem enables easy insertion

- Revolutionary design requires no rolling and provides an easier, more hygienic fit
- Bio-based materials made in North America
- All parts—the earplug, the cord (PF-30 only), the stem, even the bag—are bio-based
- Soft, smooth, low pressure for excellent comfort
- Metal detectable (blue) recommended for use in the food industry
- Independently tested NRR 32 / SNR 38

ATTENUATION CHART (ANSI S3. 19-1974, Canada Class A(L))

FREQUENCY	125	250	500	1000	2000	3150	4000	6300	8000
MEAN ATTENUATION (dB)	39.3	37.8	42.9	40.6	39.1	44.4	46	47.8	46.2
STANDARD DEVIATION (dB)	5.5	5.4	5.8	3.8	2.6	4.1	3.7	3.5	4.5

	PF-1	PF-30	PF-D
USE	Single	Single	Single
CORDING	Uncorded	Corded	Corded
MATERIAL	BioSoft™ Foam	BioSoft™ Foam	BioSoft™ Foam
SIZE	Standard	Standard	Standard
SHAPE	Push-In	Push-In	Push-In
COLOR	Yellow/Orange	Yellow/Orange	Blue
DETECTABLE	No	No	Yes
PAIR PER BOX	100	100	100



TERRACYCLE RECYCLING PROGRAM

PIP® in collaboration
with TerraCycle®



We are working to help reduce the impact of waste by recycling what is seemingly to be “un-recyclable”

Whether it’s earplugs, gloves or safety eyewear used in a manufacturing facility or jobsite, PIP®, in collaboration with TerraCycle® provides an easy and convenient way of collecting used PPE and turning it into a raw material for multiple uses. PIP’s partnership with TerraCycle®, working with our distributors and customers can help reduce millions of pounds of waste from ending up in landfills.



How does it work?



1. ORDER WASTE COLLECTION BOX

Contact your participating PIP® distributor to order the right waste collection box for your type of PPE waste.



2. COLLECT EXPENDED PPE

Workers collect the used PPE in the designated containers which include a UPS return label to a recycling center.



3. SHIP

When the box is full, you seal the box and ship prepaid to a TerraCycle facility for recycling.



4. RECYCLE

Waste is sorted, treated and transformed for a new use as a raw material ingredient in everything from rubber mats to plastic pallets. You are provided a receipt and certificate of recycling by accessing www.tcrwusa.com.



Reduced waste platform

TerraCycle's reduced waste platform allows you to recycle almost any type of waste, from gloves, earplugs and safety eyewear.



Easypak recycling boxes



510-3230



How is PPE recycled?



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.

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 goggles
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



PROTECTIVE INDUSTRIAL PRODUCTS, INC.

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Visit www.pipglobal.com/sustainability
to learn more about other PIP® sustainability initiatives.