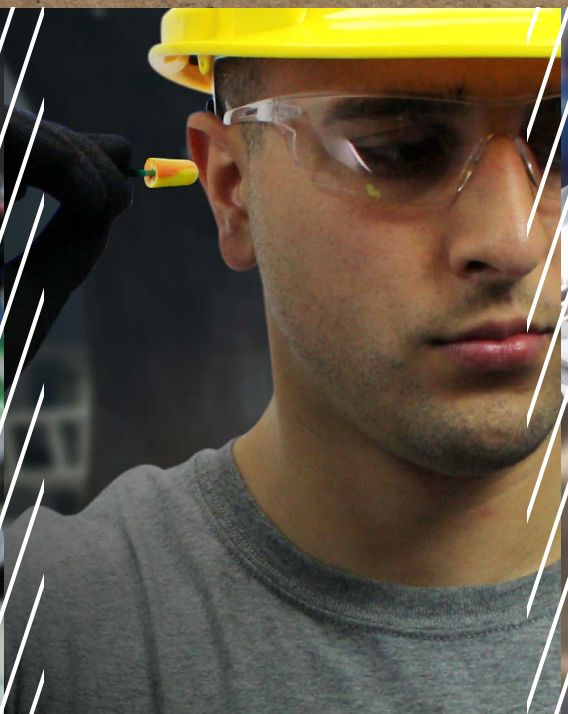
PIP

# EcoSeries™

## PRODUCT SOLUTIONS

www.pipcanada.ca

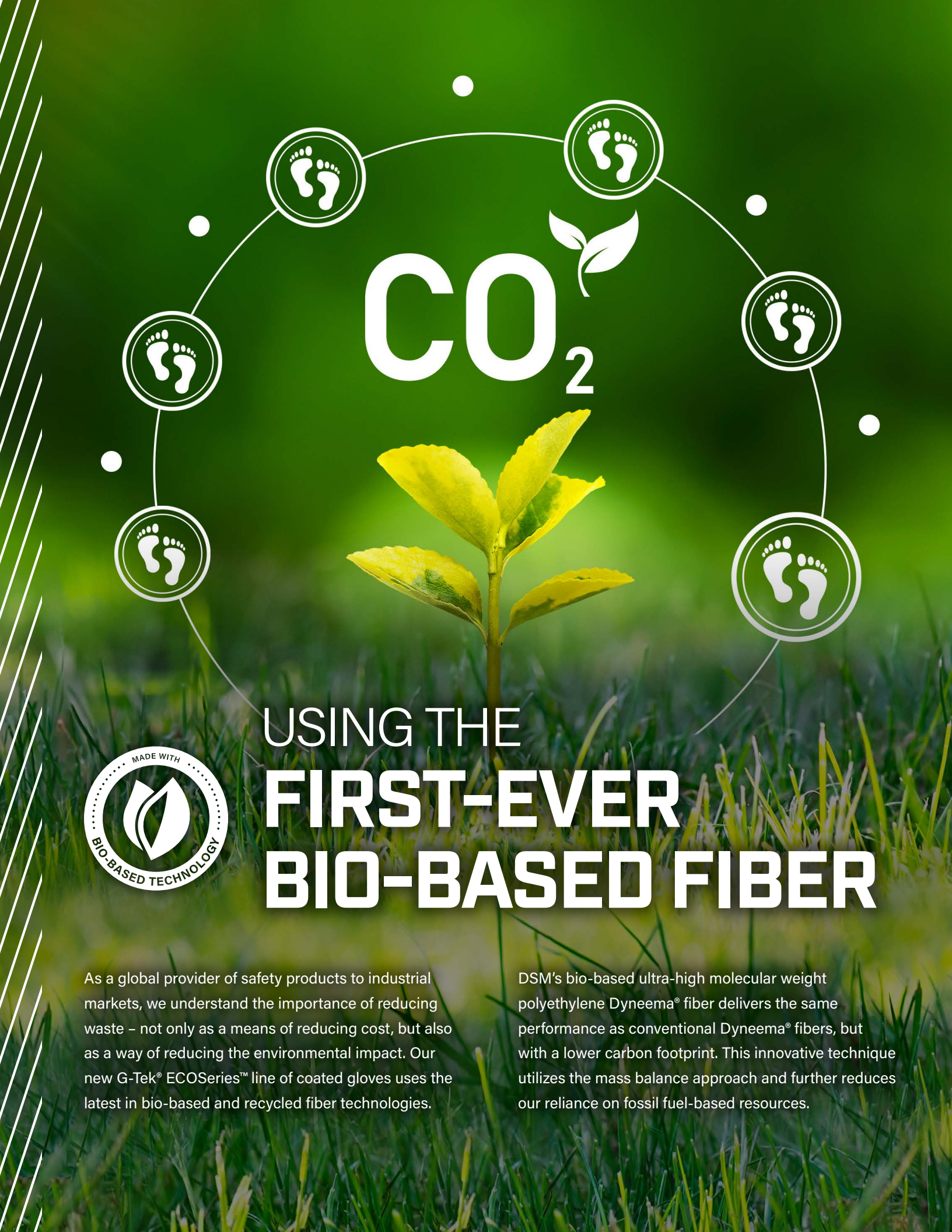
ECO Series™

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.


# PIP® LEADS THE WAY

Product Circularity markings on our website follow the path of the sustainability program of reduce, reuse, and recycle. These designations help describe the environmental impact of our portfolio.




USING THE

# FIRST-EVER BIO-BASED FIBER

MADE WITH BIO-BASED TECHNOLOGY

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.

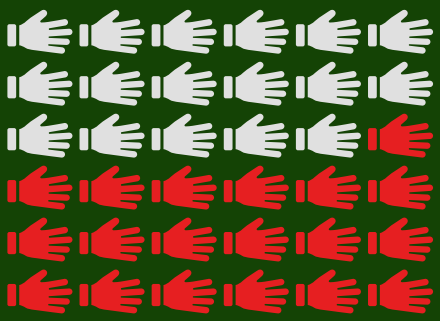
DSM's bio-based ultra-high molecular weight polyethylene Dyneema® fiber delivers the same performance as conventional Dyneema® fibers, but with a lower carbon footprint. This innovative technique utilizes the mass balance approach and further reduces our reliance on fossil fuel-based resources.

## CARBON FOOTPRINT COMPARISON

# Bio-Based Dyneema® outperforms all competing alternatives

### EQUIVALENT $CO_2$ EMISSIONS PER 10,000 PAIRS OF GLOVES

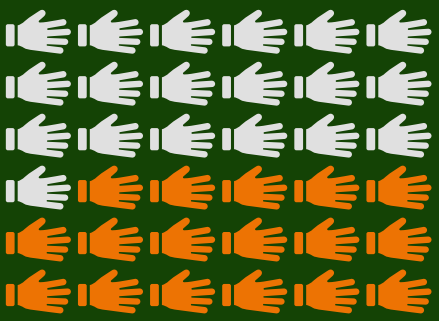
Glove made with
**Generic HMPE**



**41,888** lbs

**6.75x increase** over bio-based Dyneema®

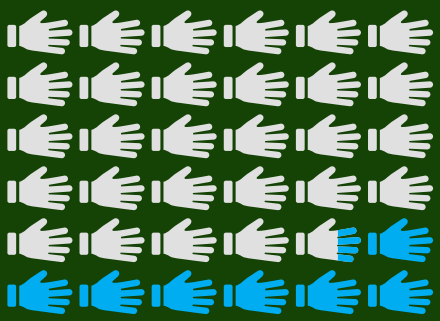
Glove made with
**Aramid**



**37,479** lbs

**6x increase** over bio-based Dyneema®

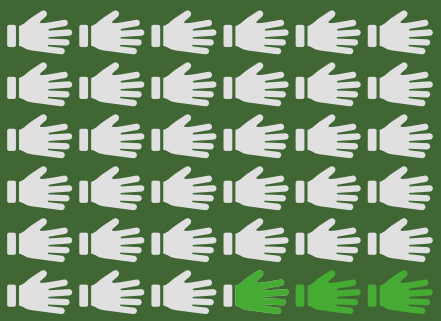
Glove made with
**Dyneema® fiber**



**16,094** lbs

**2.5x increase** over bio-based Dyneema®

Glove made with
**Bio-based Dyneema® fiber**



**6,173** lbs

*Assessment is based on gloves designed for cut level 4 performance*

# BIO-BASED SUSTAINABLE FIBERS


A4
CUT

4
ABRASION

EN388
4X42D

## GP19D322
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 $CO_2$ 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)


A2
CUT

3
ABRASION

EN388
4X42B

## GP19D324
XS-2XL

- Bio-based Dyneema® Phoenix blended shell is lightweight and provides excellent dexterity and tactile sensitivity
- Dyneema® bio-based fibers reduces 450g of $CO_2$ 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

3
PUNCTURE

EN388
4X42D

## GP19D334
S-2XL

- Bio-based Dyneema® Phoenix blended shell is lightweight and provides excellent dexterity and tactile sensitivity
- Dyneema® bio-based fibers reduces 450g of $CO_2$ 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

**Hand Protection**

| STYLE | CUT | EN388 | COATING | COATING COVERAGE | COATING COLOR | LINER MATERIAL | LINER COLOR | CONSTRUCTION | GAUGE | SIZES | PROP 65 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **GP19D322** | A4 | 4X42D | Polyurethane | Palm & Fingers | Gray | Dyneema® Diamond 2.0 | White | Coated Seamless Knit | 13 | XS-2XL | ⚠C |
| **GP19D324** | A2 | 4X42B | Polyurethane | Palm & Fingers | Black | Dyneema® Phoenix | White | Coated Seamless Knit | 13 | XS-2XL | ⚠C |
| **GP19D334** | A4 | 4X42D | Nitrile | Palm & Fingers | Black | Dyneema® Phoenix | Salt & Pepper | Coated Seamless Knit | 13 | S-2XL | |

*C*=⚠**WARNING**: Cancer - www.P65Warnings.ca.gov *R*=⚠**WARNING**: Reproductive Harm - www.P65Warnings.ca.gov *C&R*=⚠**WARNING**: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

A3
CUT

ANSI
2
CONTACT
HEAT

## ASP-18
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


A3
CUT

ANSI
2
CONTACT
HEAT

## ASP-18T
18"

- ASP sleeves made using .16 lbs of repurposed aramid yarn per pair (otherwise bound for landfills)
- Features the same performance properties as standard yellow and black colored aramid
- Dark color hides dirt and grime to reduce the need to launder, helping to extending the lifetime of the sleeve
- Softer than standard aramid yarn for better comfort and acceptance

**Arm Protection**

| STYLE | CUT | HEAT | PLY | TOP CUFF | BOTTOM CUFF | MATERIAL | COLOR | CONSTRUCTION | STANDARD SIZE |
|---|---|---|---|---|---|---|---|---|---|
| **ASP-18** | A3 | 2 | 2 | Serged | Straight | ASP Aramid | Purple/Blue | Seamless Knit | 18" |
| **ASP-18T** | A3 | 2 | 2 | Serged | Thumb Hole | ASP Aramid | Purple/Blue | Seamless Knit | 18" |

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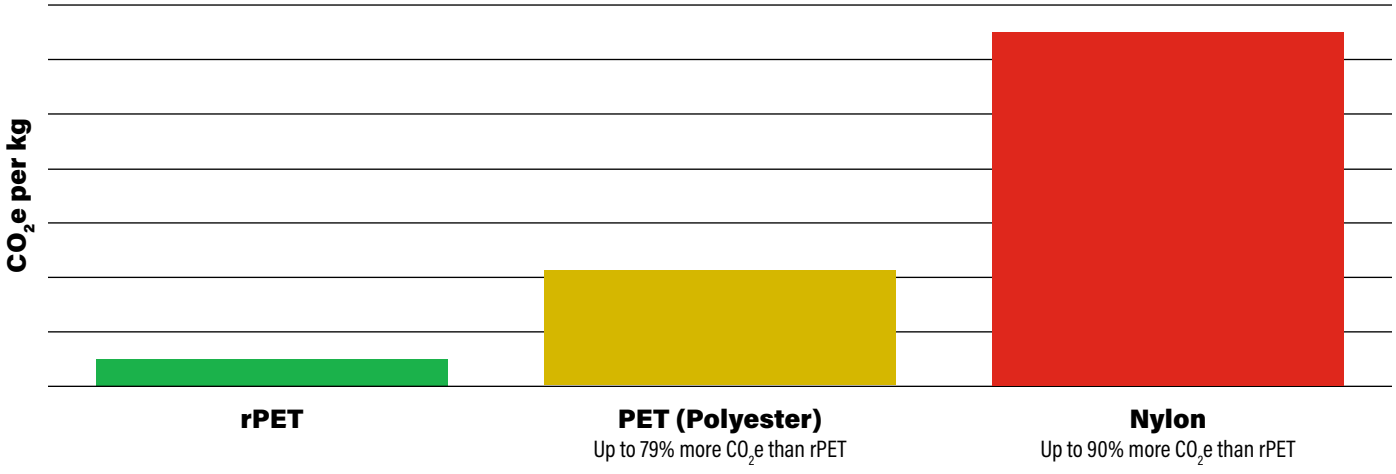
Global Recycled Standard

# 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


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 $CO_2$ 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


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 $CO_2$ 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

# 55 - 90%

## RECYCLED MATERIAL BY WEIGHT

| STYLE | CUT | EN388 | COATING | COATING COVERAGE | COATING COLOR | LINER MATERIAL | LINER COLOR | CONSTRUCTION | GAUGE | SIZES | PROP 65 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **31330R** | - | 4121X | Nitrile Foam | 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 | |

*C*= ⚠ **WARNING:** Cancer - www.P65Warnings.ca.gov *R*= ⚠ **WARNING:** Reproductive Harm - www.P65Warnings.ca.gov *C&R*= ⚠ **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

# THE WORLD'S FIRST SUSTAINABLE BIO-BASED EAR PLUGS

PIP® understands the importance of reducing waste to lower costs and minimize environmental impact. Our 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

> Ear plugs made from 82% bio-based materials


REPLENISHABLE SOURCE

SUSTAINABLE MATERIAL

$CO_2$ EMISSION REDUCTION

## END OF LIFE

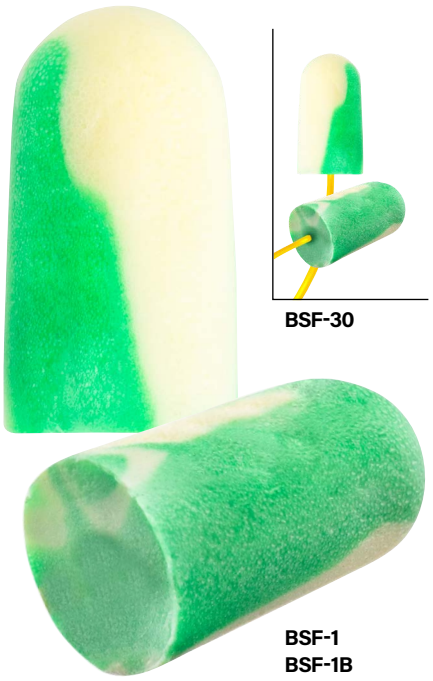
> **BioSoft™ ear plugs will decompose 76% in 180 days*.** Traditional PU or PVC ear plugs will remain unchanged.

| | 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*™



BSF-30

BSF-D
METAL DETECTABLE



BSF-1
BSF-1B

USDA CERTIFIED BIOBASED PRODUCT

**32 NRR**

### Tapered shape for easy installation

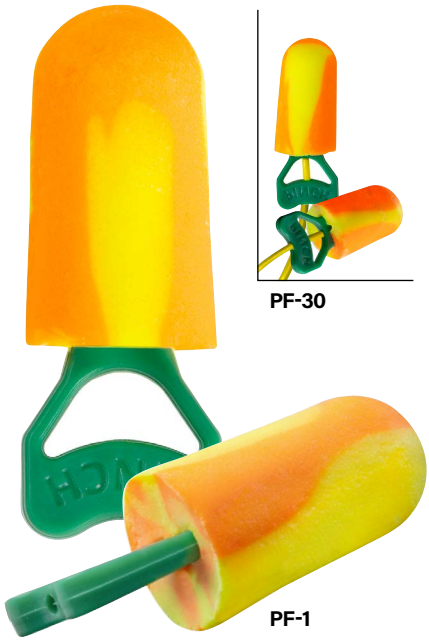
- Soft, smooth, low pressure for excellent comfort
- Bio-based materials made in North America
- BioSoft™ BSF-1 and BSF-1B contain 82% USDA® certified bio-based content
- Metal detectable (blue) recommended for use in the food industry
- Independently tested NRR 32 / SNR 38

**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*™



PF-30



PF-D
METAL DETECTABLE



PF-1

USDA CERTIFIED BIOBASED PRODUCT

**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
- BioSoft™ PF-1 contains 82% USDA® certified bio-based content
- 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 |

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

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