



EcoSeries™

PRODUCT SOLUTIONS

www.pipcanada.ca







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.



SUPPLIERS



DISTRIBUTORS



PPE USERS



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

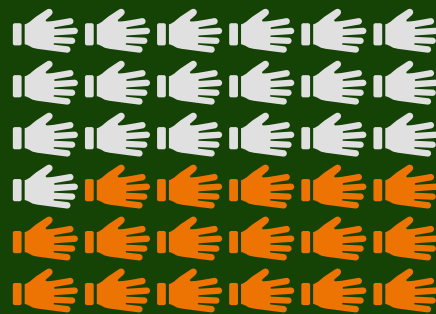
Glove made with
Generic HMPE



41,888 lbs

6.75x increase over
bio-based Dyneema®

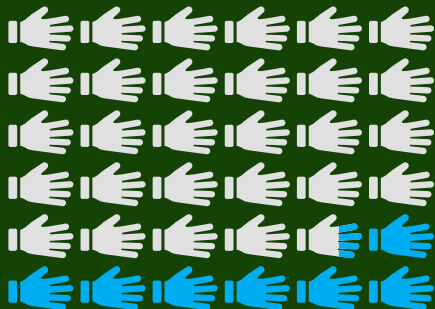
Glove made with
Aramid



37,479 lbs

6x increase over
bio-based Dyneema®

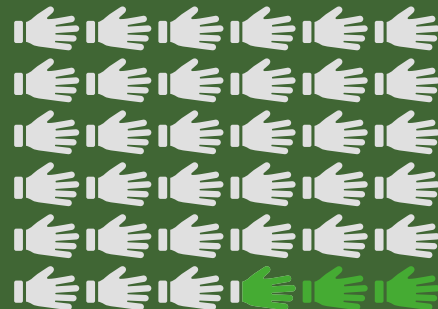
Glove made with
Dyneema® fiber



16,094 lbs

2.5x increase over
bio-based Dyneema®

Glove made with
Bio-based Dyneema® fiber



6,173 lbs

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 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)



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 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

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 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

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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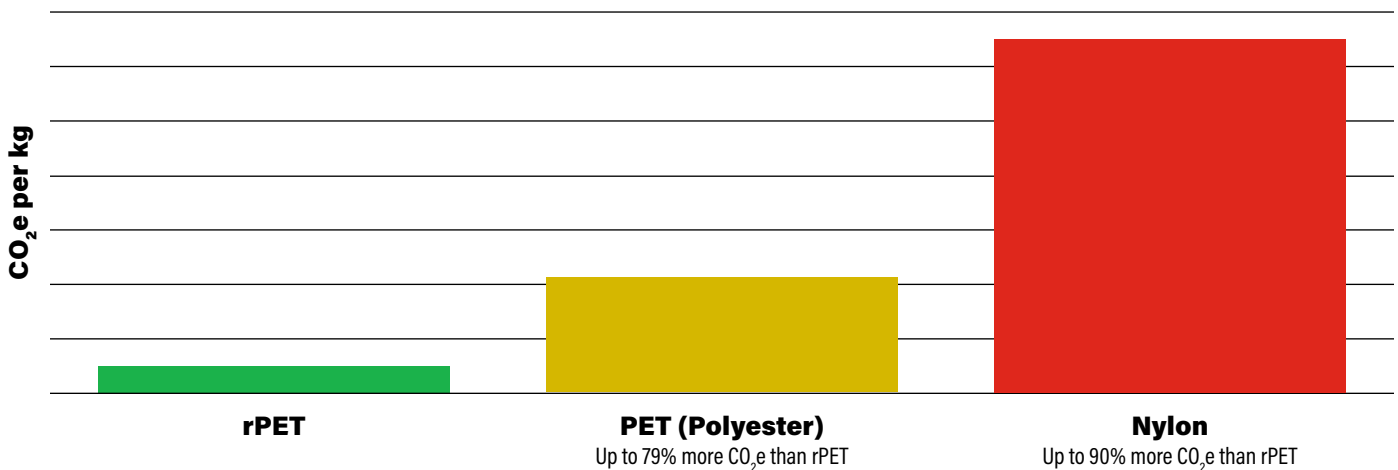


SEAMLESS KNIT GLOVES WITH **RECYCLED FIBERS**

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



418150R 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



31330R 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

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	
418150R	A2	2X42B	Latex MicroSurface	Palm & Fingers	Black	Recycled Material + Acrylic	Brown	Coated Seamless Knit	10	M-2XL	

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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.

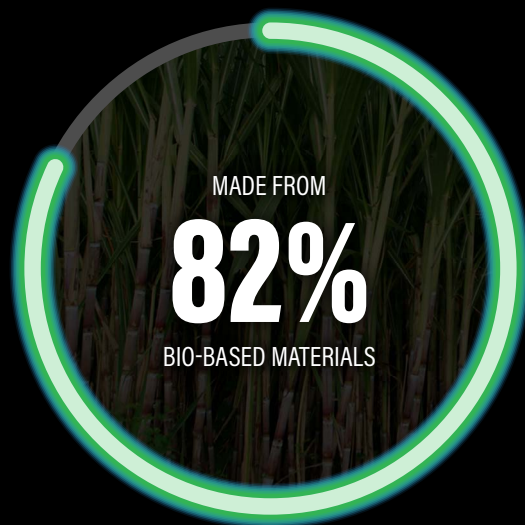
BioSoft™

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



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™



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™



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.