PROTECTIVE

SLEEVES | WORK APRONS | SPECIALITY HOODS

BRINGING THE BEST OF THE WORLD TO YOU®
Protective Industrial Products (PIP), a leading supplier of personal protective equipment, acquired McHenry Knitting in 2011.

Since it began operation in 1994, McHenry Knitting has been a leading supplier of Protective Sleeves, Working Aprons, and Specialty Hoods for leading industrial customers. Over this period it has nurtured a reputation for quality products, excellent customer service and rapid delivery of custom manufactured, Made-to-Order products.

PIP is committed to continuing this tradition.

**DUPONT™ KEVLAR® LICENSED MANUFACTURER FOR GLOVES AND SLEEVES**

**Kevlar.**

Protective Industrial Products, Inc. (“PIP”) has been appointed as the newest DuPont licensee of DuPont™ Kevlar® fiber for use in gloves, sleeves and garments. Lightweight, cut resistant and durable, Kevlar® provides workers superior protection from cuts and career-ending accidents.

**DSM DYNEEMA® LICENSED MANUFACTURER FOR GLOVES AND SLEEVES**

Since 2006 PIP has been an officially licensed manufacturer of gloves and sleeves made with Dyneema®. Dyneema® fiber is 15 times stronger than steel on an equal weight basis. Sleeves made with Dyneema® protect against a wide range of mechanical and cut hazards, and at the same time are exceptionally comfortable to wear.
SLEEVES WITH
PRITEX™ HIGH- TENACITY
POLYESTER FIBER

PRITEX™
Offers an increase of overall performance and value compared to traditional Nylon and Nylon/Cotton blend sleeves. A combination of proprietary textured filament Polyester plus Antimicrobial fabric provides exceptional comfort, will not cause skin irritation and offers excellent abrasion and ANSI Cut Level 2 cut resistance.
Not intended to be used near heat or open flame. Suggested industries include steel manufacturing, paper, glass, automotive, aerospace, metal fabrication, construction, appliance manufacturing, plastics manufacturing, etc.

• Raises the standards for performance sleeves offering an increase in overall performance and value compared to traditional Nylon and Nylon/Cotton blend sleeves.
• Manufactured using a proprietary combination of textured filament Polyester plus Antimicrobial fabric providing exceptional comfort and will not cause skin irritation.
• Superior Chemical Resistance to acids, alkali, and organic solvents. In addition these sleeves are stable against chlorine bleach.
• Excellent abrasion and fatigue resistance.
• Ideal for use where low lint properties are desired.
• Can be washed repeatedly in chlorine bleach and caustic detergents to remove dirt, odor, grease, oil, and bacteria without degradation, shrinkage or stiffening. Retains its performance after multiple washings. Can be dry-cleaned. Shrink resistant.
• Silicone Free and Latex Free.
• Meets FDA & USDA food handling requirements.
• Features a Patented NSF/ANSI Standard 51 Conformant approved Antimicrobial Fiber that is FDA & EPA approved for food contact. This fiber has been shown to inhibit the growth of microorganisms such as bacteria and mold that come in contact with the fiber up to 99.9%. Antimicrobial properties will not wash out of the fiber and will last the life of the sleeve.

ALSO AVAILABLE WITH
THUMB HOLES
To order add (TO) to the end of the part number

NEON COLORS AVAILABLE
Neon Orange
Neon Pink
Neon Yellow

Narrow Width, Elastic Cuff and Top with Antimicrobial - 18 Inch Length, ANSI Cut Level 2
15-216W 15-216WKS 15-216WOS 15-216WNS
White Black Neon Orange Neon Yellow

Standard Width, Elastic Cuff and Top with Antimicrobial - 18 Inch Length, ANSI Cut Level 2
15-216ML 15-216MLK 15-216MOL 15-216MNL
White Black Neon Orange Neon Yellow

SLEEVES WITH
DYNEEMA®

Sleeves made with Dyneema®
• Sleeves made with Spun Dyneema® offer unparalleled comfort and coolness while providing cut and abrasion resistance
• White sleeves are single-ply, 10 gauge and have elastic on both ends for superior fit
• PIP now offers the first gray sleeves made with Dyneema® in the industry, great for hiding dirt
• Gray sleeves are double-ply with nylon
• Sleeves made with Dyneema® Filament are available in five lengths from 10” - 20”
• Sleeves made with Spun Dyneema® are available in multiple lengths

Sleeves made with Filament Dyneema®, EN Cut Level 3
20-D10 10” Length
20-D12 12” Length
20-D16 18” Length
20-D18 18” Length
20-D20 20” Length

Sleeves made with Spun Dyneema®, EN Cut Level 3
20-SD14 White, 14” Length
20-SD16 White, 16” Length
20-SD18 White, 18” Length
20-TG14 Gray, 14” Length
20-TG16 Gray, 16” Length
20-TG18 Gray, 18” Length
20-TG21 Gray, 21” Length

Sleeves made with Spun Dyneema®, Thumb Hole, EN Cut Level 3
20-SD14TO White, 14” Length
20-SD21TO White, 21” Length
100% Spun Dyneema® Sleeves, Gray, Non Slip Cuff
20-TG18NS 18” Length

NOW AVAILABLE WITH
NON-SLIP TOP
FOR YOUR COMFORT

IN STOCK ITEMS – SHIPS IN 24 HOURS

AVAILABLE IN:
12”, 14”, 18”, 20”, 22” & 24” LENGTHS

pipusa.com

pipusa.com
Knitted Sleeves with Kevlar®

- Sleeves with Kevlar® provide excellent cut protection for the wrists and arms
- Used for glass operations, metal stamping, sheet metal, automotive, electrical and light heat applications
- Available in single-ply for economy or double-ply for added protection
- Style 10-KS14TOLP has a leather protective patch for added heat protection
- Blousy sleeve style offers loose fit to reduce fatigue
- Cotton inner ply style (CL) offers added comfort
- All PIP Sleeves made in the USA are now available with non-slip tops (TO), Finger Tacks (F) and Thumb Tacks (TT)

Fabric Sleeves with Kevlar®

- These lightweight and breathable sleeves are shrink resistant and offer exceptional comfort
- Styles 10-K4626 and 10-K4622 offer excellent thermal flame protection from the high heat and open flame of welding torches
- Styles 10-K4826, 10-K4822, 10-K4626 and 10-K4622 offer cut resistance for medium duty applications
- Styles 10-K4726, 10-K4722, 10-K4626 and 10-K4622 are ideal for assembly, plastic molding, metal fabrication and automotive applications while styles 10-K4626 and 10-K4622 are ideal for welding for automotive, aerospace and metal fabrication

ACP Technology with Dyneema®

- Manufactured with Proprietary ACP Technology, featuring DSM Dyneema® and fully encapsulated glass fibers
- Exceptional comfort, will not cause skin irritation
- Superior washability, can be washed repeatedly in chlorine bleach and caustic detergents or can be dry-cleaned, shrink resistant
- Meets FDA & USDA food handling requirements

ACP Technology with Kevlar® Brand Fiber

- Made with Proprietary ACP Technology, featuring DuPont® Kevlar® and fully encapsulated glass fibers
- Offers twice the cut resistance compared to traditional Para-aramid gloves
- Heat resistance protects the hand from minor heat and burn injuries up to 350°F
- Exceptional comfort, will not cause skin irritation
- Washable, can be washed in soap and water and can be dry-cleaned

ACP Technology with Kevlar® Brand Fiber Sleeves - 18 Inch Length, ANSI Cut Level 4
- 10-KA18 Green
- 10-KA18CL Green, Kevlar® Lined
- 10-KA18S Green, Single Ply
- 10-KAN018 Neon Orange, Kevlar® Lined
- 10-KAN018CL Neon Orange, Cotton Lined
- 10-KAN018L Neon Orange, Single Ply
- 10-KANP18 Neon Pink, Single Ply
- 10-KANP18CL Neon Pink, Cotton Lined
- 10-KANP18L Neon Pink, Kevlar® Lined
- 10-KANP18S Neon Pink, Single Ply
- 10-KANY18 Neon Yellow, Single Ply
- 10-KANY18CL Neon Yellow, Cotton Lined
- 10-KANY18L Neon Yellow, Kevlar® Lined
- 10-KANY18S Neon Yellow, Single Ply

Manufacturers of ACP Technology® gloves and sleeves are 100% silicone free.

ACP proprietary Technology raises the standards for performance knit products offering an increase in overall performance and value compared to traditional Para-aramid products. ACP provides excellent abrasion and cut resistance for lower cost per use. ACP Technology gloves and sleeves are 100% silicone free.
One page of the document contains information about selecting a series, choosing options, and picking a length. The document mentions different materials such as Kevlar®, Dyneema®, Cotton, and various blends. Options include thumb holes, thumb slots, bar tacks, and various types of closures. The document also mentions that PIP’s products are made in the USA at their manufacturing facility in Bluffton, Indiana. Customized sleeves are available in various lengths, and if the custom option needed is not shown, customers can contact PIP at 1.800.262.5755. The URL pipusa.com is also mentioned at the bottom.
Kevlar.

Sleeves with Kevlar® provide excellent cut protection and protection from light heat for the wrists and arms. Available in single-ply for light weight or double-ply for added protection. Cotton inner ply style offers added comfort. All MMI sleeves are made in the USA and are available with customizable options.

Refer to page 6 - 7 for options you can use to customize your sleeve.

<table>
<thead>
<tr>
<th>SERIES</th>
<th>MATERIAL</th>
<th>WEIGHT</th>
<th>PLY</th>
<th>WIDTH</th>
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</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>10-LKC</td>
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<td>Double</td>
<td>3&quot;</td>
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<td>10-NKC</td>
<td>Kevlar®/Cotton Plated</td>
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<td>Double</td>
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<tr>
<td>10-NKDS</td>
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<tr>
<td>10-KWDS</td>
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<td>10-FKC</td>
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<td>Heavy</td>
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<td>3&quot;</td>
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</tbody>
</table>

*These series are also available in Black Kevlar®

Double ply is ANSI Cut Level 3, Single ply is ANSI Cut Level 2

Select styles also available in BLACK KEVLAR®

APPLICATIONS

Glass operations
Metal stamping
Metal handling
Automotive
Steel manufacturing
Light heat

COMFORT & COOLNESS

WHILE PROVIDING CUT & ABRASION RESISTANCE

Dyneema®

Made from Ultra High Molecular Weight Polyethylene (UHMW-PE)
Dyneema® has a very high cut and abrasion resistance compared to other man-made fibers. Dyneema® improves comfort by wicking away moisture giving you a cool and dry feeling. All MMI sleeves are made in the USA and are available with customizable options.

Refer to page 6 - 7 for options you can use to customize your sleeve.

<table>
<thead>
<tr>
<th>SERIES</th>
<th>MATERIAL</th>
<th>WEIGHT</th>
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Double ply is ANSI Cut Level 2, Single ply is ANSI Cut Level 1
AN ECONOMICAL CHOICE FOR INDUSTRIAL APPLICATIONS

COTTON

100% natural cotton is lightweight, breathes well and is an economical choice for industrial applications for general purpose use.

Refer to page 6 - 7 for options you can use to customize your sleeve.

KEVLAR®/COTTON

A 50/50 blend of aramid and cotton fiber makes for a cost effective sleeve, yet sacrifices little cut protection as compared with a 100% para-aramid version in a similar weight. The blended fiber offers the wearer increased comfort, launders well and can be exposed to low level heat applications, all the while offering ANSI Cut Level 2 Cut Resistance.

<table>
<thead>
<tr>
<th>SERIES</th>
<th>MATERIAL</th>
<th>WEIGHT</th>
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<th>WIDTH</th>
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<td>MCS</td>
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</tbody>
</table>

Refer to page 6 - 7 for options you can use to customize your sleeve.

ACP KEVLAR® & ACP DYNEEMA®

ACP proprietary Technology raises the standards for performance knit products offering an increase in overall performance and value compared to traditional Para-Aramid products. ACP provides excellent abrasion and cut resistance for lower cost per use. ACP Technology gloves and sleeves are 100% silicone free.

<table>
<thead>
<tr>
<th>SERIES</th>
<th>MATERIAL</th>
<th>WEIGHT</th>
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</table>

*These styles have no polyester in them making them suitable for higher heat applications
**Neon colors also available in orange and pink

APPLICATIONS

Steel manufacturing
Paper processing
Glass operations
Automotive
Aerospace
Metal handling
Construction
Appliance assembly
Plastic molding
CUSTOMIZED – MADE-TO-ORDER SHIPS IN 14 DAYS

APPLICATIONS
- Steel manufacturing
- Paper processing
- Glass operations
- Automotive
- Aerospace
- Metal handling
- Construction
- Appliance assembly
- Plastic molding

INCREASE OF OVERALL PERFORMANCE & VALUE

A high-tenacity synthetic fiber that raises the standards for performance sleeves. Offers an increase of overall performance and value compared to traditional Nylon and Nylon/Cotton blend sleeves. A combination of proprietary textured filament synthetic fiber plus Antimicrobial provides exceptional comfort, will not cause skin irritation and offers excellent abrasion and ANSI Cut Level 2 cut resistance.

Refer to page 6 - 7 for options you can use to customize your sleeve.

<table>
<thead>
<tr>
<th>SERIES</th>
<th>MATERIAL</th>
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<th>PLY</th>
<th>WIDTH</th>
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*Hi-Vis Pritex™ sleeves are made from high tenacity synthetic fiber which does not include antimicrobial.

ALSO AVAILABLE IN YELLOW AND ORANGE
CUSTOMIZED – MADE-TO-ORDER SHIPS IN 14 DAYS

THREE EASY STEPS TO PLACE YOUR ORDER

1 SELECT A SERIES

Different series based on Material, Weight, Ply and Width are available.

- 4Kl: Kevlar® Interlock
- 4KC: Kevlar®/Cotton Interlock
- 4KT: Kevlar® Twill
- 4KV: Brown Kevlar®/Viscose FR
- 4KR: Kevlar® Rashel
- 4DJ: Duck
- 4DE: Denim
- 4GR: Green FR

2 PICK A LENGTH

Sleeves are available in any length.

- 24”
- 22”
- 20”
- 18”
- 16”
- 14”
- 12”
- 10”

3 CHOOSE YOUR OPTIONS

Customize your sleeve with these options to fit your application.

- 1: Kevlar® Knit Wrist With Thumb Hole
- 2: 3/4” Elastic Overstitched
- 3: Blue/Gold Elastic Overstitched
- 4: Black/White Elastic Overslitched
- 5: Black Elastic Overslitched
- 6: White Elastic Overslitched
- 7: Elastic Hemmed In
- VC: Velcro Closure

ADDITIONAL OPTIONS

- W: Womens
- XL: XLarge
- XXL: 2XLarge
- XXXL: 3XLarge

If the custom option you need is not shown above, contact PIP at 1.800.262.5755

* Elastic band is actually stitched inside the sleeve

From simple sleeves to sleeves made to meet the toughest specs, we can make and customize a cut-and-sewn sleeve to meet your needs.

Whether you need cut resistant protection, heat protection or both, we cover it all.
**KEVLAR® INTERLOCK**

A blend of Dupont Kevlar® and Cotton is lightweight and breathable. The blended combination offers less cut resistance than those made with 100% Kevlar®, but the cotton makes for a more comfortable sleeve to wear.

**KEVLAR®/COTTON INTERLOCK**

100% Dupont Kevlar® Interlock fabric is lightweight and breathable. Interlock fabric offers a high level of cut resistance, abrasion resistance and comfort.

**KEVLAR® TWILL**

Lightweight Kevlar® Twill offers high cut and abrasion resistance. Will not support a flame and is suitable for heat applications.

**KEVLAR®/VISCOSE TWILL**

Manufactured from an FR Kevlar® blend that is lightweight and breathable, this sleeve provides excellent protection from high heat and open flame from a welder’s torch. In addition, this sleeve provides much greater cut resistance than FR cotton.

**KEVLAR® RASCHEL**

100% Dupont Kevlar® Raschel fabric offers an open weave design that provides excellent breathability along with a high level of cut and abrasion resistance. The open weave design is ideal for workers wanting the best combination of cut resistance and breathability.

**APPLICATIONS**

- Glass operations
- Metal stamping
- Metal handling
- Automotive
- Steel manufacturing
- Light heat

**CUSTOMIZED**

MADE-TO-ORDER SHIPS IN 14 DAYS
AN ECONOMICAL CHOICE FOR GENERAL PURPOSE

DUCK
Also referred to as a cotton canvas, material breathes well and allows moisture to pass through making it comfortable to wear. An economical choice for general purpose protection.

DENIM
A rugged cotton twill fabric, denim offers general purpose protection and works well in light heat applications and is an economical choice for general purpose protection.

FR GREEN
Flame resistant and washable, offers protection in low heat and light spark applications.

Refer to page 14 - 15 for options you can use to customize your sleeve.

LIGHTWEIGHT 2-PLY MATERIAL OFFERS PROTECTION FROM CUTS AND LACERATIONS CAUSED BY GLASS, SHEET OR SCRAP METAL, AND OTHER SHARP OBJECTS. VELCRO CLOSURE FOR ADJUSTABILITY AND QUICK RELEASE. BOTH WHITE AND BLACK CANE MESH SLEEVES ARE AVAILABLE IN 7 INCH OR 9 INCH LENGTHS.

CANE MESH
FOR CUT PROTECTION

BINDING COLOR

CUSTOMIZED — MADE-TO-ORDER SHIPS IN 14 DAYS
APRONS MADE TO YOUR SPECIFICATIONS

APRONS MADE TO YOUR SPECIFICATIONS

KEVLAR® TWILL, DUCK, DENIM, FR GREEN & BLACK CANE MESH

Aprons can be made out of KEVLAR® Twill, Duck, Denim, FR Green and Black Cane Mesh to meet your specific needs.

- KEVLAR® Twill for cut resistance and heat protection
- Duck and Denim aprons for all general purpose applications
- FR Green for welding and other applications
- Black Cane Mesh for cut resistance

All MMI aprons are customized to the size you need. Three of our standard sizes are:
- 24” x 36”
- 28” x 36”
- 28” x 39”

OPTIONS AVAILABLE

Grommets
Velcro Break-Away
Snap Closure
Swing Pockets
Nylon Waist Strap w/Buckle
Hemmed Edges
One Pocket
Two Pockets
Three Pockets

YELLOW P84 HOODS
P84 hoods come in both double ply and single ply versions. The double ply version offers 20 cal/cm2 of protection while offering great comfort. The yellow color hides most common dirt and the hood will wash and not lose its properties.

Our hoods are blended P84 40%, Lenzing 55% and KEVLAR® 5%.

ITEM # DESCRIPTION
202-P84LYH21 2 ply top, 1 ply bib, 20 Rated cal/cm2
202-P84LYH11 1 ply top, no bib

ITEM # DESCRIPTION
202-BNH11 Single ply top, single ply 6” bib of Black Nomex®
202-BNH21 Double ply top, single ply 6” bib of Black Nomex®

WHITE NOMEX® BLEND HOODS
Lenzing FR® can be found wherever there is a need for flame resistance. This fabric combination provides comfort and breathability. The TPP values of Lenzing FR® are first rate and it considerably enhances the performance of aramid fibers. Hoods can be used in industrial settings and they make great winter FR liners. Our hoods are blended Nomex® 20% and Lenzing® 80%.

ITEM # DESCRIPTION
WNBH21 Double ply top, single ply 4” bib
WNBH22 Double ply top, double ply 6” bib, 10 cal protection

WHITE COTTON SAND BLAST HOOD
Our white cotton sand blast hood is a soft cotton hood great for many uses. With great coverage and soft to the skin touch this hood is great to wear all day long. This hood covers your shoulders since it is 25” wide at the base and is 16” tall with a 7” round top to give you real head room.

ITEM # MATERIAL SURGE OPTIONS WIDTH LENGTH
WHLC White Cotton Top, Face & Bottom 25” 16”

COTTON SPRAY SOCKS
We use only the best US grown Cotton for our hoods.

ITEM # MATERIAL SURGE OPTIONS WIDTH LENGTH
230-NPH16 Cotton Top, Face & Bottom 5” 16”
230-NPH18 Cotton Top, Face & Bottom 6” 18”
230-PH16 Cotton Top, Face & Bottom 6” 18”
230-PH18 Cotton Top, Face & Bottom 6” 18”

Hoods are not NFPA compliant