



# Industrial *Solutions*







# Why Piedmont?

## WE OFFER

- Over 50 Branch Locations
- Expert Product Knowledge
- Local Inventory & Value-Added Services

## WHO WE ARE

At Piedmont Plastics®, our recipe for success for over 50 years has been excellent customer service, local, knowledgeable employees, and competitive prices on the world's best brands.

In that time, we have grown from a local supplier of basic plastic shapes and films, to one of the leading plastic distributors in North America.

With a reputation for integrity that permeates every aspect of our business, we have established a legacy of customer service and product quality. We embrace every opportunity to promote enjoyable, profitable relationships with our customers, employees and suppliers.

With over 50 distribution centers throughout North America, chances are, we have what you need, when you need it... **FAST.**



## OUR COMMITMENT

Customer service is a core value of Piedmont Plastics. We are committed to providing every customer with the highest level of service in the industry. This commitment reaches far beyond simply providing you with our knowledgeable sales representatives and the right product mix. Through our dedication to this goal, our customers have come to rely on us for:

- On-Time Shipping
- Premier Brands
- Industry Expertise
- State-of-the-Art Conversion Equipment
- Quality Management Systems

*the*  
**PREMIER CHOICE**  
*for your plastic needs*

Find more solutions at  
[www.piedmontplastics.com](http://www.piedmontplastics.com)



# Meat Processing

## FLEXIBLE PVC CURTAIN

### MATERIAL: PVC (POLYVINYL CHLORIDE)

A highly flexible material, PVC flex curtain can be used in multiple applications. It prevents contamination of dedicated space, assists in temperature regulation, and keeps contaminates out of the work environment.

## FEATURES

- Standard colors, widths, lengths and gauges available
- Easy on-site install
- Prevents contamination
- Provides temperature regulation between indoor and outdoor environments
- Tolerant to extreme temperatures between 0°F and 150° F

## TYGON® TUBING

### MATERIAL: PVC, NEOPRENE, URETHANE, FLUOROCARBON

Transfer of semi-solid and liquid fluids processed specifically for meat processing requires strict standards as well as certifications. Tygon® is a food-grade tubing solution for filling, draining, and transfer applications. Tygon products are tasteless, odor-free, tear-resistant, do not harbor bacteria, and are FDA, USDA, NSF or 3A Dairy compliant.

## FEATURES

- FDA, USDA, NSF, 3A-Dairy compliant
- Non-porous material is easy to clean/sanitize
- High flex and bend radius
- Durable and tear-resistant



## GUIDE RAILS

### MATERIAL: UHMW

Moving goods to each processing station along conveyor systems relies on guide rails to control product movement and ensure products remain on the conveyor. UHMW guide rails are non-absorbent, self-lubricating and corrosion resistant, enabling improved efficiency with minimal hang-ups while maintaining easy sanitation. UHMW is FDA, USDA and 3A-Dairy compliant.

## FEATURES

- FDA, USDA, 3A-Dairy compliant
- Low coefficient of friction
- Non-stick surface
- Easy to form/ machine
- Temperature range 45°F - 180°F



# Meat Processing

## MACHINE GUARDS

### MATERIAL: POLYCARBONATE

Polycarbonate is used as a clear machine guard in meat processing and preparation, creating separation between the worker, and cutting or packing equipment. Clear polycarbonate allows the operator to monitor the cutting or packing process safely behind an optically clear, virtually unbreakable barrier.

### FEATURES

- Cut-to-size and close tolerances available
- High impact resistance
- Fabricates easily
- Cold formable
- Reduces noise

## CONVEYORS

### MATERIAL: UHMW

Conveyors used in meat processing must be able to withstand temperatures sometimes approaching near freezing, but also must be easily cleaned and sanitized to avoid cross contamination. UHMW is uniquely suited for this application thanks to its superior wear resistance, self-lubrication, and corrosion resistant properties while still being FDA, USDA and 3A-Dairy compliant.

### FEATURES

- Self-lubricating
- Wear and corrosion resistant
- Excellent noise abatement
- Maintains key physical properties to -30°C
- FDA, USDA, 3A-Dairy Compliant



## CUTTING BOARDS

### MATERIAL: HDPE

Cutting boards are used in many protein applications to process meat. HDPE will not dull knives like wood and is made to last in the most demanding commercial environments. It is easy to clean, easy to maintain, will not rot or splinter. Even more, HDPE complies with the FDA and is tested and certified by the NSF for a sanitary work surface.

### FEATURES

- Non-porous and light weight
- Will not chip, crack or warp
- Easy on-site installation
- Oversize and cut-to-size sheets
- Smooth and matte finishes available





# Food & Beverage

## MACHINE GUARDS

### MATERIAL: POLYCARBONATE

Polycarbonate is used as a clear machine guard in the food and beverage industry, creating separation between the operator and specific machinery parts. Polycarbonate windows can be installed around potentially dangerous mechanisms or moving parts to protect operators while maintaining high visibility of the operation.

### FEATURES

- Cut-to-size and close tolerances available
- High impact resistance
- Fabricates easily
- Cold formable
- Reduces noise



## GUIDE RAILS

### MATERIAL: UHMW

Moving goods to various filling stations throughout the facility relies on guide rails to control product movement and ensure products remain on the conveyor. UHMW guide rails are non-absorbent, self-lubricating and corrosion resistant enabling improved efficiency with minimal hang-ups while maintaining easy sanitation. UHMW is FDA, USDA and 3A-Dairy compliant.

### FEATURES

- FDA, USDA, 3A-Dairy compliant
- Low coefficient of friction
- Non-stick surface
- Easy to form/ machine
- Temperature range 45°F - 180°F



# Food & Beverage

## TYGON® TUBING

### MATERIAL: PVC, NEOPRENE, URETHANE, FLUOROCARBON

Fluid transfer can be especially challenging depending on the type, viscosity and various other properties that may be present. Transfer of semi-solid and liquid fluids processed specifically for food and beverage requires strict standards as well as certifications. Tygon® is a food-grade tubing solution for filling, draining, and transfer applications. Tygon® products are tasteless, odor-free, tear-resistant, do not harbor bacteria and can be FDA, USDA, NSF or 3A Dairy Compliant.

### FEATURES

- FDA, USDA, NSF, 3A-Dairy compliant
- Non-porous material is easy to clean/sanitize
- High flex and bend radius
- Durable and tear-resistant



## SEMI-FABRICATED PARTS

### MATERIAL: HDPE, UHMW, NYLON®, TEFILON®

Starwheels, gears, bushings and bearings are just a few of the many different plastic parts used inside food and beverage processing equipment. From organizing bottles passing through a filling station, maintaining pressurized seals, or ensuring consistently smooth conveyor movement, plastic fabricated parts increase material production, reduce equipment downtime, minimize product damage and mitigate manufacturing noise.

### FEATURES

- Corrosion resistant
- Self-lubricating
- Light weight
- High temperature formulations
- Performance increasing additives





# Pulp & Paper

## TIPPLE ARM

### MATERIAL: UHMW

Tough, impact, and corrosion resistant materials are absolutely necessary when it comes to handling felled logs. Tipple arms are no exception. UHMW is recommended over comparable metallic materials due to its longevity, impact resistance and material lubricity.

### FEATURES

- Will not chip, crack or warp
- Lightweight characteristics
- Easily fabricated
- 1/7th the weight of metallic material

## MACHINE GUARDS

### MATERIAL: POLYCARBONATE

Logging equipment can be some of the most dangerous equipment to operate, and ensuring proper protection for operators is paramount to safety. Polycarbonate can be used in many places to protect operators from various hazards. Polycarbonate cab glazing for tipple arms, dozers and other heavy machinery ensures a virtually unbreakable barrier between operators and possible flying debris or fallen logs.

### FEATURES

- Cut-to-size and close tolerances available
- High impact resistance
- Fabricates easily
- Cold formable
- Reduces noise



## SEMI-FABRICATED PARTS

### MATERIAL: HDPE, UHMW, NYLON®, TEFLON®

Many plastic materials can be used in the pulp and paper industry due to their abilities to withstand harsh and corrosive environments. Plastic gaskets, gears, bushings and bearings are commonly used inside of many different pieces of equipment, while heavy machinery can be equipped with outrigger pads with UHMW feet. Compared to metallic parts, plastic fabricated parts won't corrode or rust, and offer less downtime with increased efficiency.

### FEATURES

- Corrosion resistant
- Self-lubricating
- Light weight
- High temperature formulations
- Performance increasing additives



# Pulp & Paper



## CONVEYORS

### MATERIAL: UHMW

Conveyors are commonly used within the pulp and paper industry to move felled logs and processed pulp around the manufacturing facility. UHMW performs this job exceptionally well due to its anti-static, low coefficient of friction, and self-lubricating properties. As a result, it holds up well in even the most extreme environments thanks to its superior wear and corrosion resistance.

## FEATURES

- Promotes bulk material flow
- Excellent in high load, high-speed, abrasive applications
- Eliminates arcing, ratholing and erratic material flow
- Self-lubricating
- Wear and corrosion resistant
- Excellent noise abatement
- Maintains key physical properties to -30°C

## HOPPERS, CHUTES & LINERS

### MATERIAL: UHMW

Large loads and corrosive chemicals are the expected norm for industrial equipment being used by loggers and paper manufacturers. Many pieces of equipment can gain great benefits from lining various chutes, hoppers and truck beds with UHMW to improve material flow, increase efficiency, and improve equipment lifespan. UHMW's superior wear resistance, low coefficient of friction and corrosion resistant properties make it an excellent performer for these severe environments.

## FEATURES

- High use/wear applications
- Excellent abrasion, chemical and corrosion resistance
- Easy to clean
- Improves material flow
- Mar Resistant
- Cost effective material



# Reference Guide



## NYLON®



Recommended industries/markets: OEM, pulp & paper, & chemical

- More dimensionally stable than polyethylene
- Excellent mechanical properties
- Moisture absorbing properties
- Performance increasing additives available

## POLYCARBONATE

(TUFFAK®)



Recommended industries/markets: red & white protein, pulp & paper, food & beverage, glass replacement

- FDA, USDA, NSF compliant
- Produced from both copolymer (Celcon®) and homopolymer (Delrin®) resins
- Easy to machine
- Maintains excellent dimensional stability
- Anti-moisture absorbent
- Performance increasing additives available

## TYGON® TUBING



Recommended industries/markets: food & beverage, red & white protein, dairy, automotive, oil & gas

- FDA, USDA, NSF, 3A-Dairy compliant
- Industry standard for purity
- Recognizable trade name
- PVC, Urethane, Neoprene, Fluorocarbon

## ACRYLIC



Recommended Industries: pop display, OEM

- 93% optical clarity compared to glass
- Color and mirrored options available
- 15 times impact strength of glass
- Easy to fabricate

## UHMW

(ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE)



Recommended industries/markets: mining, pulp & paper, food & beverage, chemical

- FDA, USDA, NSF compliant
- Low coefficient of friction
- High impact strength
- Easy to clean and fabricate

## ACETAL



Recommended industries/markets: OEM, security glazing, pulp & paper, food & beverage

- FDA, USDA, NSF compliant
- Produced from both copolymer (Celcon®) and homopolymer (Delrin®) resins
- Easy to machine
- Maintains excellent dimensional stability
- Anti-moisture absorbent
- Performance increasing additives available

## HDPE

(HIGH DENSITY POLYETHYLENE)



Recommended industries/markets: red & white protein, OEM, marine

- FDA, USDA, NSF compliant
- Available in smooth and matte finish (cutting boards)
- Wide color selection
- Easy to clean, cut and fabricate
- 1/7th the weight of metallic material

## HIGH PERFORMANCE



Recommended industries/markets: OEM, pulp & paper, & chemical

- PEEK®, Ultem®, Rulon®, Rydel®, Teflon®, Polysulfone
- Continuous operating temperature +300 °F





#### YOUR LOCAL BRANCH

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704.597.8200

**For a full list of locations, visit**  
[piedmontplastics.com/locations](http://piedmontplastics.com/locations)

*We're closer than you think.*

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