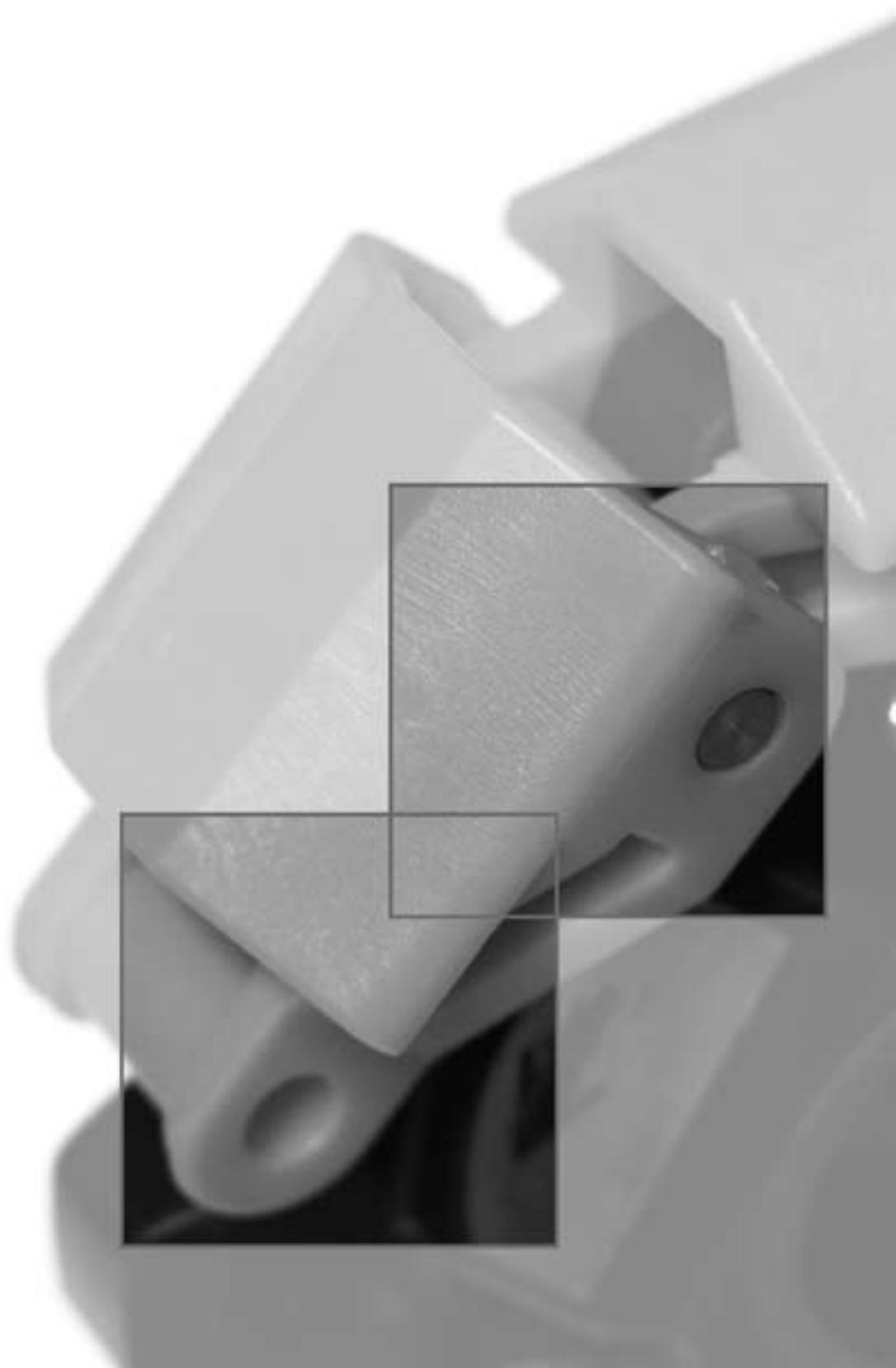


# CAN-AM CHAINS ENGINEERED PLASTICS





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**Can-Am Chains Engineered Plastics program offers a complete line of products, materials, and services for today's industrial applications**

## PRODUCTS

**Wear Plate  
Channex  
Bearings  
Sprockets  
Chain Beds**

**Sorter Parts  
Kiln Cart Bushings  
Impact Pads  
Carriage Wheels**

**Plastic Chain  
Conveyor Flights  
Magnetic Separation  
Magnetic Fastening**

## MATERIALS

**UHMW – Natural  
UHMW – Rebro  
UHMW – Wear Guard  
UHMW – Power Plate  
UHMW – Ice**

**Poly Link UHMW  
Nylon / Acetal  
Shockstop  
PTFE  
Phenolic**

**Cip Composites  
Nytro-PVL**

## SERVICES

**Designing  
Engineering  
Site Surveys  
Local Inventory**

**Fabricating  
Drilling  
Machining**

**Cutting  
Technical Assistance  
Application Engineering**



Wear "Indicator"



**WEAR GUARD™**

**CAN-AM "Wear Guard"** is a custom engineered UHMW formulation that has two (2) integral layers of polymer molded together in two contrasting colors. The top layer is a – **Cross linked** (enhanced molecular structure) – **UV stabilized** (to retard the effects of sunlight) formulation offering premium wear resistance against sliding abrasion. The bottom layer is a wear indicator that when viewed from above will indicate that the wear plate has performed to a point where it needs to be replaced.  
**"A preventive maintenance tool!"**

**CAN-AM "Wear Guard"** is designed for use as chain wear plate, chute liner, and hopper liner, especially in dark or hard to see areas, where performance of the liners requires monitoring.

**PULP SAFE Wear Guard PS** is a metal filled UHMW designed for application where pulp chip contamination is an issue. It's high specific gravity allows it to sink in the pulping process, and it's metal content makes it detectable in metal detection systems.

**Available in sheet thickness – 1/2", 5/8" and 3/4"**

Coefficient of friction – 0.15

**POWERPLATE**

**CAN-AM CHAINS PowerPlate** is a modified UHMW that makes it one of the lowest coefficient of friction plastic wear plates available in today's marketplace. In addition, it's modifiers offer higher load and higher abrasion features than regular UHMW. These features make PowerPlate an excellent choice for chain wear plate where minimal drag needs to be obtained. As well, PowerPlate excels in most bulk material handling liner applications, because it's low coefficient of friction properties allow material to release faster than it would on regular wear materials.

**Specs and Features**

- Coefficient of friction:
- Normal UHMW – 0.12
- PowerPlate: – 0.09

Reduce the friction / Reduce the wear

- Other Applications:
- Abrasive slides
- Belt slides and guides
- Wear plate transitions
- Bulk material slides

**ICE**

**Can-Am "ICE"** is a high performance wear material designed for high load, and tough abrasive applications.

The mechanical properties of **Can-Am "ICE"** have been modified to increase it's hardness and dimensional stability.

This uniqueness makes **Can-Am "ICE"** ideal for heavy Mill, Drag chain and Rake-back wear plate applications.

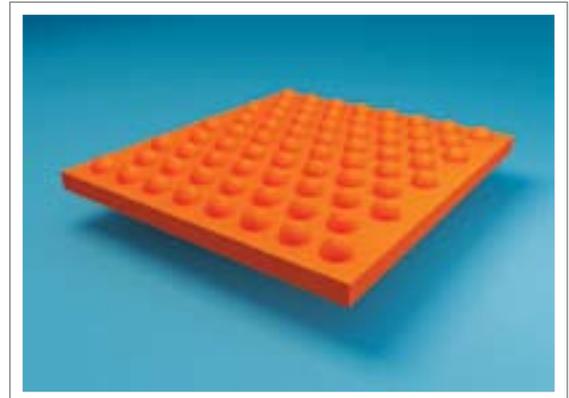
Coefficient of friction – 0.12

**EXTREME DUTY****ROCKET PLATE****Capabilities:**

- **RocketPlate** is 100% UHMW sheet with hemispherical nodules
- Replaces high maintenance ball transfer units
- Virtually eliminates static, slip-stick and debris problems
- Relatively flexible for transfer table, chute and conveyor liner
- Super slick and maintenance free
- 1/2" x 48" x 120" standard size

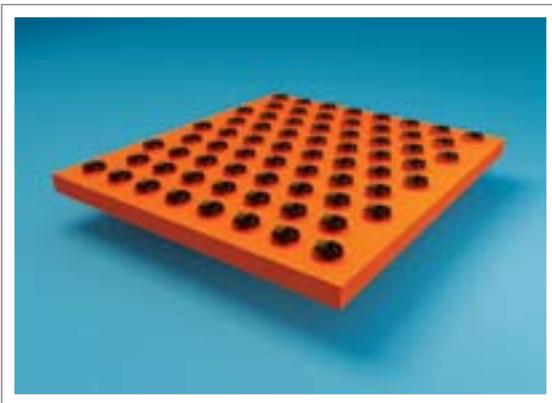
**Applications:**

- Bulk Mail Conveyor
- Chutes
- Agriculture Processing
- Turntables
- Automotive Assembly
- Processing Plants
- Package Handling
- Food Processing
- Assembly Systems
- Transfer Applications
- General Manufacturing
- Bulk Materials Handling
- Airport Ground Support
- Production Enhancement





Sand



Slag

**ANTI-SLIP****HIGH VISIBILITY SYNTHETIC ANTI-SLIP COVERING**

- Safeguards pedestrian and vehicular slip hazard areas
- Virtually permanent and maintenance free
  - 0.30" thick 3'-0" x 9'-0" sheet
  - High visibility contrast color
    - Will not corrode or rot
- Installs easily over wood, concrete, steel and aluminum
  - Not a paint or tape
- Easily installed with anchors, screws or rivets

**Applications:**

- Marina gangways
- Workboat decks
- Cruise line steps & ramps
  - Stair treads
- Low light areas

**Engineered Plastic****NYTRO-PVL**

**CAN-AM NYTRO PVL** is a high performance Engineered Plastic developed for high-speed roller, sharp top, and sharp chain applications. It's high PV (pressure velocity) and self-lubricating features extend chain life by absorbing impact and lowering operating temperatures, resulting in the reduction of costly downtime. Nytro PVL dramatically reduces lubrication cost and lowers operating noise decibel levels.

**Other Applications:**

Sprocket bushings, Bearings, Friction slides, Transition wear-plate

**Available** in sheet stock and tubular bar.

Coefficient of friction – 0.12

# Engineered Plastic

## SHOCK STOP

### Features

**CAN-AM Shock Stop** is a specially formulated material that isolates shock and impact, at it's source. This, along with it's ability to minimize rebound, results in a measurable cost savings by reducing structural maintenance and product damage.

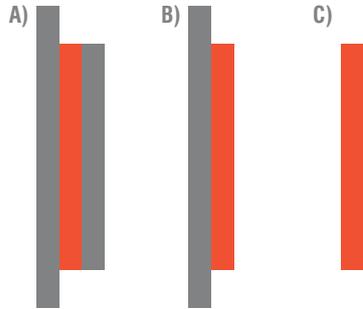
### Applications

**CAN-AM Shock Stop** is custom manufactured. It's available

- A) Bonded to steel c/w steel faceplate,
- B) Bonded to steel,
- C) Plain, Log Stops, Cant Stops, Board Stops, and Bulk Material Landing Areas are typical applications.

### Fastening

- A) Plain – Bolted, Encased,
- B) Bonded to steel – Bolted, Welded,
- C) Magna-Plate Fastening.



# Channex

## CHANNEX

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Plastic Chain



**NH78 / NH78CB**

**CAN-AM NH78** is designed for use in non-marking and corrosive applications. It is a great alternative to conventional steel 78 chain, when conditions demand its features.

**CAN-AM NH78** used in and around dip tanks, finished lumber, and sewage treatment, are a few examples of environments that call for alternative solutions.

**Specifications:**

- Ultimate strength – 5,000 pounds (2300 kg)
- Lengths – 10 ft
- Material – Acetal
- Packaging – 50 ft/box
- Pins – 304 Stainless Steel
- Color – Safety Orange

**ACETAL CHAIN**

Channels Inserts and Components



**UHMW TRU/TRAK C2/C3/C4**

**Can-Am Chain UHMW Tru/Trak** – inserts for steel channel, gives maximum life and performance results. The Tru/trak feature supports the barrel and sidebar equally, allowing for heavier loading, and carrying capacity.

This feature also maintains center chain tracking thru the sprocket and eliminates sidebar and rivet damage.

Minimum coefficient of friction and noise reduction are additional benefits for any retrofit or new installation.

**Available for 2", 3" and 4" steel channel.**

**Magna-Patch™**

**MAGNA-PATCH™** is a reusable magnetic patch. This highly visible product is a quick and secure means of repairing holes in steel pipes, flat back elbows, round radius elbows, silos, chutes, hoppers and other steel applications susceptible to abrasion.

**MAGNA-PATCH™** combines magnetic elements in flexible elastomeric material.

Designed to reduce downtime, material loss and clean-up costs associated with highly abrasive conveying systems.

Pneumatic Conveying · Gravity Feed Systems · Slurry Piping



**MAGNA-PATCH™** benefits include:

- Easy application, attachment in a “SNAP”
- Maintenance free
- High visibility to identify problem area
- Reusable
- Soft abrasion resistant material reduces product damage
- Minimize product loss

**MAGNA-PATCH™ Model #MP-711 (Standard)**

The MP-711 system consists of 2 components:

- 1) Magnetic retainer - a flexible elastomeric material with 2 powerful permanent magnetic elements.  
Dimensions - 11” x 7.5” (28 x 19cm), weight - 7.5 lbs. (3 kg)
- 2) MAGNA-PATCH™ comes with 2 replaceable abrasion resistant pads  
Dimensions - 4” x 5” x 1/4” (10 x 13 x 6 cm).

**MAGNA-PATCH™ Model #MP-811 (Elbow)**

The MP-811 system consists of 3 components:

- 1) Magnetic retainer - a flexible elastomeric material with 8 powerful permanent magnetic elements.  
Dimension - 10.75” x 10” (27 x 25 cm) - weight - 5 lbs (2 kg)
- 2) MAGNA-PATCH™ comes with 2 replaceable abrasion resistant pads.  
Dimensions - 4” x 5” x 1/4” (10 x 13 x 6 cm).
- 3) Adjustable 1/2 inch “Power Screw”. (Power Screw is tightened into retainer)

**MAGNA-PATCH™ Model #MP-611 (Mini-Patch)**

MP-611 is similar to the MP-811 in that it works on flat and round radius applications, but designed for smaller diameter piping e.g. 3” diameter and up.

The MP-611 system consists of 3 components:

- 1) Magnetic retainer - a flexible elastomeric material with 6 powerful permanent magnetic elements.  
Dimensions – 6.5” x 8.5” (16.5 x 21.5cm), Weight 2.7 lbs. (1.2 kg)
- 2) MAGNA-PATCH™ comes with 2 replaceable abrasion resistant pads.  
Dimensions – 2.5” x 3.5” x 1/4” (6.4 x 8.9 x 6 cm) thk.
- 3) Adjustable 1/2 inch “Power Screw”. (Power Screw is tightened into retainer)



**MAGNA-PLATE™**

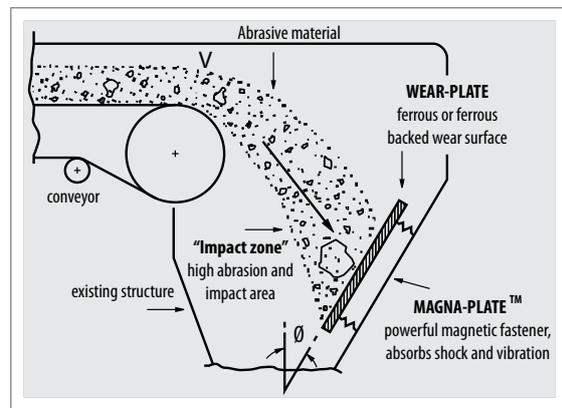
**MAGNETIC WEAR PLATE FASTENING SYSTEM**

**MAGNA-PLATE™** is a highly efficient method of wear plate attachment. This product combines powerful magnetic elements in flexible elastomeric compounds. **MAGNA-PLATE™** offers a quick, clean and safe method to attach wear plate.

Available in three models:

1. Standard
2. High Impact
3. Wet Application

- Maintenance free permanent magnetic power
- Fast change out, eliminating welding, gouging and grinding
  - Prevention of weld crystallization
  - Noise and vibration dampening
- Custom designs available to meet specific applications



**MAGNA-WEDGE™**

**TRAMP METAL SEPARATOR**

**Quick and simple installation**

- installs in minutes utilizing the patented MAGNA-PLATE™ fastening system
- applications include vibratory feeders, chutes and hoppers

**Decreased maintenance costs**

- capture and retain ferrous tramp metal before entering process equipment
- protect chippers, hogs, grinders and other size reduction equipment

**Increased uptime**

- reduce unnecessary metal detector tripping
- enhanced metal detector performance while permitting higher sensitivity

**Quality built**

- manufactured out of tough polyurethane, providing years of service
- permanent magnetic power guaranteed to maintain strength



## MAGNA-LIFTER™

### PERMANENT MAGNETIC LIFTERS

#### Easy to use

- Maneuver Round, Flat and Angled Steel Efficiently

#### Self contained

- Compact Design Allows for Workstation Mobility

#### Labor and time saving

- One Man Operation
- Eliminate Blocking, Chains and Straps (Slings)

#### Effective use of floor space

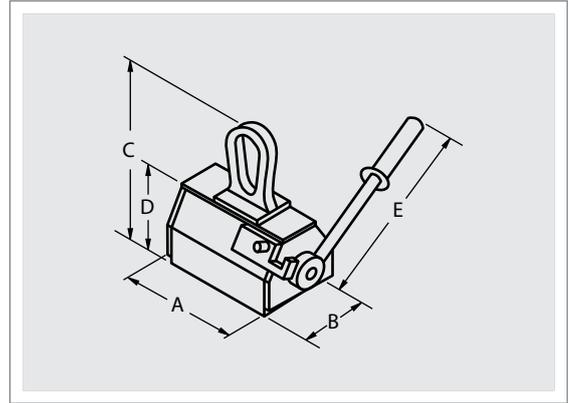
- Allows For Horizontal Stacking Without Spacers

#### Rare earth permanent magnets

- Do Not Require Any Additional Power Supply
- Eliminate Hazard Associated With Electro-magnetic Lifters

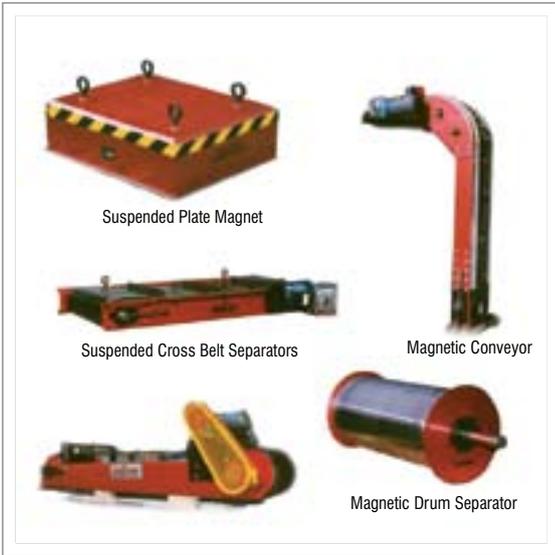
#### Exceptionally safe and reliable operation

- 3:1 Safety Factor
- Self Locking Lever Prevents Accidental Deactivation
- Suspended Below the Hook or Utilized With Spreader Beam



Model	Flat Lifting Capacity	Round Lifting Capacity	Max. Lifting Capacity	Weight	Size				
					A	B	C	D	E
	<b>Kg</b>	<b>Kg</b>	<b>Kg</b>	<b>Kg</b>	<b>mm</b>				
MSL-100	100	50	300	7	122	80	188	88	220
MSL-200	200	100	600	16	162	112	216	116	220
MSL-300	300	150	900	24	202	120	246	126	240
MSL-500	500	250	1500	38	252	145	271	148	240
MSL-1000	1000	500	3000	103	272	194	350	191	400
MSL-2000	2000	1000	6000	195	517	225	398	223	450

Model	Flat Lifting Capacity	Round Lifting Capacity	Max. Lifting Capacity	Weight	Size				
					A	B	C	D	E
	<b>lbs.</b>	<b>lbs.</b>	<b>lbs.</b>	<b>lbs.</b>	<b>Inches</b>				
MSL-100	220	110	661	15	4.1	3.2	7.4	3.5	8.7
MSL-200	440	220	1322	35	6.4	4.4	8.5	4.6	8.7
MSL-300	661	330	1984	53	8.0	4.7	9.7	5.0	9.5
MSL-500	1102	550	3306	84	10.0	5.7	10.7	5.8	9.5
MSL-1000	2204	110	6613	227	14.6	7.6	13.8	7.5	15.8
MSL-2000	4409	2200	13227	430	20.4	8.9	15.7	8.8	17.7



**SEPARATION**

**PERMANENT MAGNETIC SEPARATION EQUIPMENT**

Magna-Skin Technologies, Inc. (MST) offers a variety of PERMANENT MAGNETIC SEPARATION SOLUTIONS for industry. MST's magnetic separation equipment provides economical and dependable magnetic protection for your product and process equipment. The permanent magnetic forces provides continuous and effective removal of unwanted tramp metal.

- Increased equipment life
- Increased production
- Improved product purity
- Easily retrofitted
- No electrical power required to run magnet
- Low maintenance
- Magnetic strength guaranteed for the life of the installation

**MST'S SEPARATION EQUIPMENT INCLUDES:**

- Magnetic Wedge Separators
- Magnetic Head Pulleys
- Suspended Cross Belt Separation Systems
- Drum Separators
- Suspended and In-line Plate Magnets

**Specializing in Custom Magnetic Separation Systems "Built for Your Application"**



**OTHER PRODUCTS**

**Product Information:**

Ultra Poly stocks both custom and standard profiles. We look forward to quoting you on your requirements. The only minimum on most shapes is one 10' length. For rod in diameters 2" and larger, we can cut and ship in 1' increments.

**UHMW Rod**



Rod stocked in Natural in the following diameters:

1/4", 1/2", 5/8", 3/4", 7/8", 1", 1.25", 1.5", 1.75", 2", 2.25", 2.5", 2.75", 3", 3.25", 3.5", 3.75", 4", 4.25", 4.5", 4.75", 5", 5.5", 6", 7", 8", 9", 10"

**UHMW Channel**



Channel stocked in Natural and Yellow:

81X - ID 3/4" x 2", OD 1-1/4" x 3"  
 81X High Side - ID 1-1/2" x 2-1/8", OD 2" x 3-1/8"  
 H78 - ID 3/4" x 3-1/4" x 1-1/4" x 4" and 4-1/2"

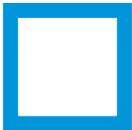
**UHMW Angle**



Angle stocked in Natural:

1/2" x 3" x 3"  
 1/4" x 2" x 2"  
 1/4" x 1.5" x 1.5"

**UHMW Box**



Stocked in Natural :

4" O.D. x 3" I.D.

**UHMW Coil & Board**

1/4" x 1-1/2" through 1/2" x 4" available in continuous coils (250' max.)



1/4" x 1-1/2"  
 1/4" x 2"  
 1/4" x 3"



3/8" x 1-1/4"  
 3/8" x 2"  
 3/8" x 3"



1/2" x 3"  
 1/2" x 4"



1" x 2"



2" x 6"



3/4" x 12"



1-1/4" x 12"

## CAN-AM CHAINS ENGINEERED PLASTICS PHYSICAL PROPERTIES

Property	Test Method	Unit	Wear Guard	Power Plate	Ice	NYTRO-PVL	Wear Guard PS
Material		Type	UHMW	UHMW	UHMW	Eng/Plas	UHMW
Density / Specific Gravity	ASTM D792	g/cm <sup>3</sup>	0.955	0.945	0.98	1.13	1.28
Tensile at break @ 23C	ASTM D638	psi	6300	4200	5400	12000	2500
Elongation at break	ASTM D638	%	400	320	348	10	100
Flexural Modulus, 1% secant	ASTM D790B	psi	110,000	68,000	130,000	435,000	129,000
Thermal Expansion, 20C-100C	ASTM D696	K1	9x10(5)	9x10(5)	1.8x10(4)	5x10(5)	N/A
Hardness, Shore D	ASTM 2240		68	68	68	81	62
Abrasion	Sand Slurry	Steel - 100	14	14	9	N/A	32
Izod Impact	ASTM D256	ft.lbs/in.	no break	no break	no break	3.4	no break
Izod Impact - double notch	ASTM D256A	ft.lbs/in.	25	56	63	N/A	18
Coefficient Friction vs CR Steel	ASTM D1894	Static	0.25	0.11	0.18	N/A	0.25
	ASTM D1894	Dynamic	0.15	0.09	0.12	0.12	0.15
Melting Point	ASTM D736	F	270	270	270	420	270
Max Service Temperature		F	200	200	200	300	200
Long Term Service Temp.		F	180	180	180	212	180
Moisture Absorbtion		%	0	0	0	2.5	0
Moisture Absorbtion at Saturat.		%	0	0	0	6	0



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