

Plastic Fabrication

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Nolu-BR
BluMax

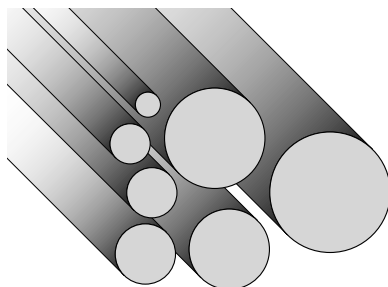


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Antimicrobial UHMW Products





Machined Custom Products made from Premium UHMW Plastic Materials

Nolu-S

Light Gray, Low Friction

Nolu-S is a unique and patented alloy of UHMW and other dry lubricants that maintains good wear characteristics under heavier loads while significantly reducing the coefficient of friction to about half of standard UHMW. Nolu-S advantages include protection of expensive mating surfaces, lower noise levels, and acceptance for food contact as specified by the FDA and USDA.

Natural UHMW

Standard White

Standard UHMW is the workhorse of the industry. Its typical attributes include low friction, high wear and durability, more color stable (less prone to yellowing) and of uniform consistency. It is a good material for side guides, wearstrips and nominal chain guide loads.

Nolu-SR

Medium Gray, Durable, Low Friction

Nolu-SR combines the Nolu-S features with a much harder, longer wearing composition which can be used in some high-speed/high-load applications previously requiring Nylon®.



Nolu-BR

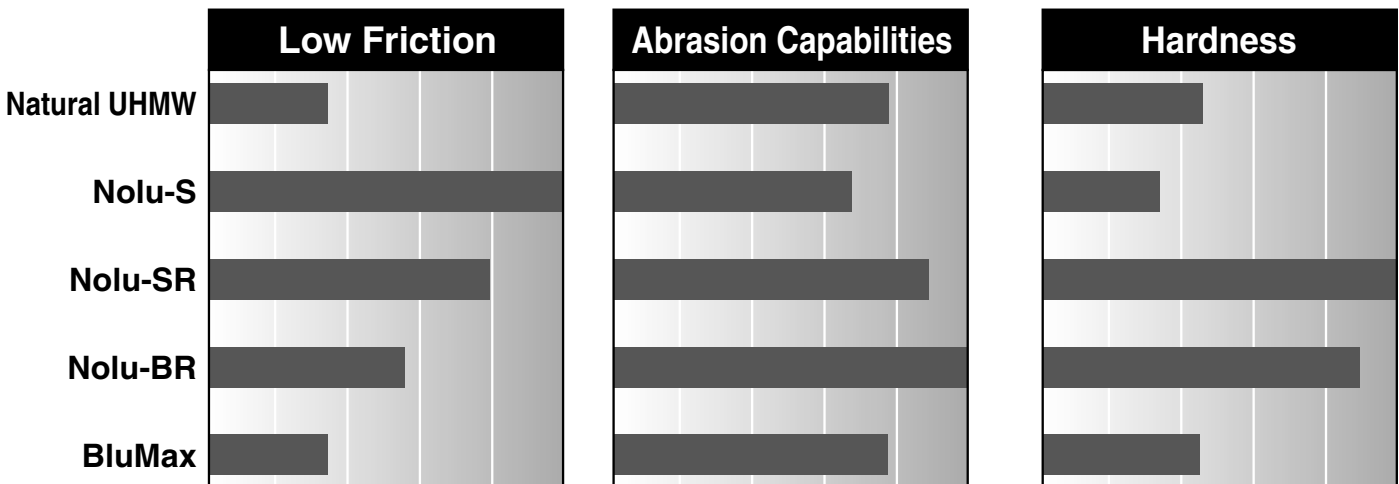
Black, Special Reprocessed

Nolu-BR UHMW is our special blend of resins and reprocessed UHMW that maximizes wear and friction properties for most applications. It is excellent for use in modular chain tracks.

BluMax

Blue, Antimicrobial

The inorganic compound in BluMax is effective against an extensive range of microorganisms, and evenly distributed throughout the UHMW. This means that BluMax has all the properties of UHMW and, regardless of wear, will have consistent antimicrobial effectiveness.



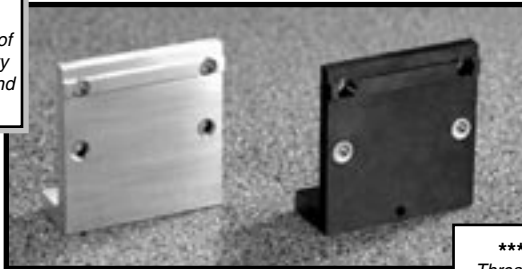
Relative Working Values • Not to scale



Over 25 Years of Custom Plastic Design and Manufacturing

- *Reduced unit cost*
- *Lighter weight*
- *High corrosion resistance*
- *Increased life of other system components*
- *Sanitary*
- *Reduced noise*

***** Before \$12.88 *****
The parts were originally machined from a solid block of aluminum and in a secondary process, holes were drilled and tapped in four places.



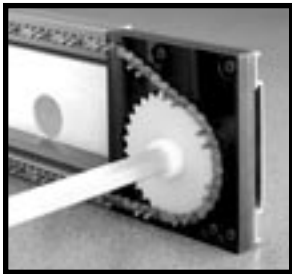
Transforming Metal Parts to Plastic Parts

The right plastic part can exceed the performance of metal in terms of overall effectiveness.

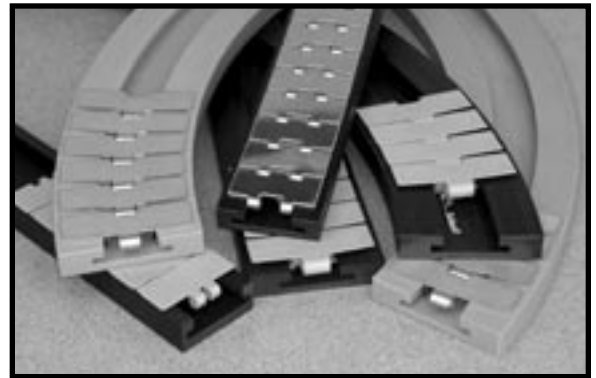
***** After \$3.50 *****
Threaded inserts are simultaneously molded into the part creating significant savings and a more functional and aesthetically appealing part for the customer.

Applications

From high temperature to extremely corrosive applications, we have the engineering know-how to design the right product. Using the most appropriate materials, we create the components which can make virtually any application run smoother, quieter, or more trouble-free.



- *General Industrial*
- *Corrosive*
- *High-Temperature*
- *Sanitary*
- *Abrasive*
- *Anti-Static*



Secondary Operations

We frequently combine our engineered plastics with different types of metals or plastics to create unique metal/plastic or plastic/plastic hybrid parts and custom assemblies.

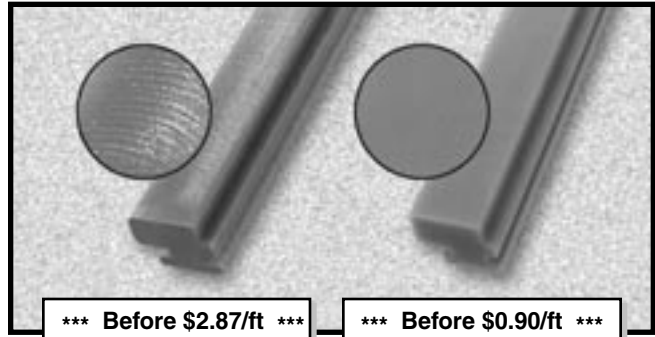
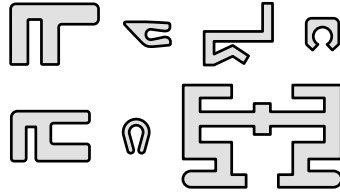
- *Complete assemblies*
- *Metal threaded inserts*
- *Metal/plastic mating*



Machined Parts or Extruded Parts

Machined plastic strips are a substantial portion of our business. At times, volume warrants an extruded profile. With our in-house tooling capabilities, the volume requirements to extrude may be lower and the turnaround faster.

- **Significantly lower cost per unit**
- **Smoother surface finish**
- **No limitation on length**
- **Some extrusions can be coiled**



*** Before \$2.87/ft ***

These strips were originally machined on three sides from UHMW sheet stock which was time consuming and had a maximum length of ten feet.

*** Before \$0.90/ft ***

Extruding the strips reduces the cost significantly, as well as improving the finish of the product and allowing for lengths up to 500 feet.



Materials

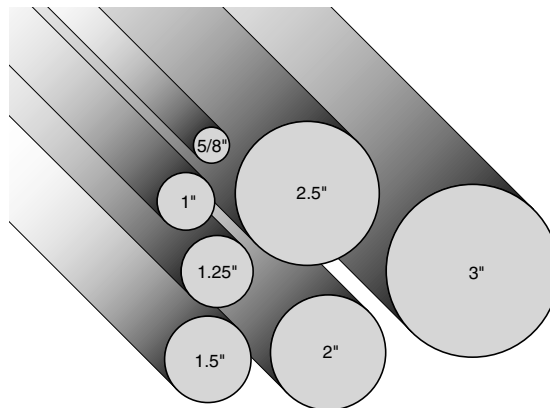
- **Nolu-S**
- **UHMW**
- **Nylon**
- **Acetal**
- **Teflon**
- **Nylatron**
- **PVC**
- **Polypropylene**

Different materials have different physical properties. With over 40 years of experience in this field, Solus has a history of matching the right materials to a given application.

Nolu-S Rod

Nolu-S Rod

Nolu-S material and its outstanding characteristics; low friction, higher speed capability, self lubrication, is available in bulk extruded rod form. These rods are ideal for machining various types of plastic components including roller end bearings.



Part Number	Diameter (in.)	Length (ft.)
012R10A-5	5/8	5
012R16A-5	1	5
012R20A-5	1-1/4	5
012R24A-5	1-1/2	5
012R32A-5	2	5
012R40A-5	2-1/2	5
012R48A-5	3	5
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012R10A-10	5/8	10
012R16A-10	1	10
012R20A-10	1-1/4	10
012R24A-10	1-1/2	10
012R32A-10	2	10
012R40A-10	2-1/2	10
012R48A-10	3	10



Antimicrobial UHMW Products



*For
Processing,
Packaging,
and
Conveying
Industries*

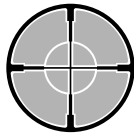


BluMax Markets / Applications
<ul style="list-style-type: none"> • p • Dairy, meat and poultry equipment • Restaurant equipment • Conveyor wear strips and guides • Cutting boards

BluMax UHMW Features
<ul style="list-style-type: none"> • High wear resistance • Low friction • Negligible moisture absorption • High impact strength • Excellent chemical resistance

BluMax Availability
<ul style="list-style-type: none"> • Custom and standard extruded shapes • Machined shapes • Wearstrip profiles • Modular belt guides

The antimicrobial component in BluMax is widely used and universally approved.	
US FDA FCN	000001, Food Contact Polymers
USDA	Letter of No Objection
NSF	Standard 51 Conformant
U.S. TSCA	Accession Number 179238
EPA FIFRA	RC-2000-11631-3
EEC ELINCS	Notification Number 98-06-1176-00
EU SCF	Compliant
EU Biocidal Products Directive	Existing Chemicals list Annex 1 Notification Filed: [N272] A
Health Canada HPFB	Letter of No Objection



BluMaxTM
Antimicrobial

Maximum Antimicrobial Performance

✓ Broad Spectrum Efficacy

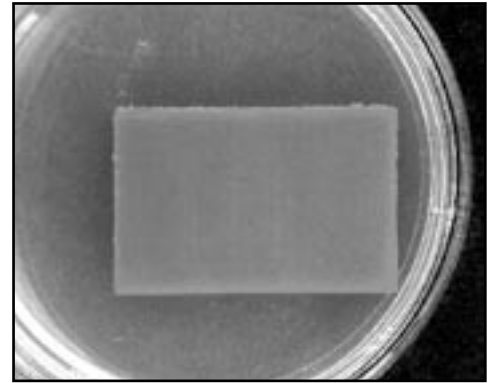
Our advanced inorganic compound is active against an extensive range of both gram positive and gram negative microorganisms.

✓ Thermally Stable

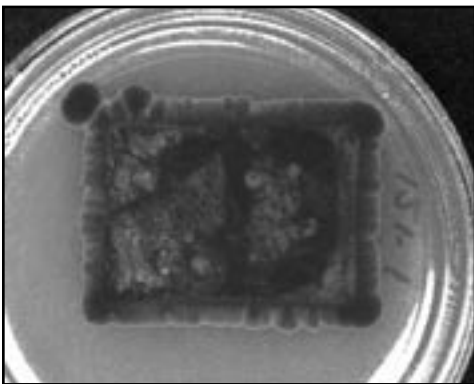
Whereas other antimicrobials can be sensitive to elevated temperatures, the BluMax antimicrobial agent will not decompose or degrade during higher temperature processing.

✓ Color Stable

The BluMax antimicrobial is virtually unaffected by light or UV rays. Other antimicrobials can cause plastic to yellow or turn brownish in color.



BluMax UHMW after laboratory exposure to bacteria - inhibits growth.



Blue UHMW without BluMax antimicrobial additive after laboratory exposure to bacteria.

✓ Extremely Durable

BluMax was engineered from the beginning to provide a non-migratory, long-term antimicrobial effect. The controlled release ensures efficacy for the life of the material.

✓ Homogeneous

BluMax is manufactured such that the antimicrobial material is evenly distributed throughout the UHMW. This means that any surface, regardless of wear, will have the same antimicrobial properties.

BluMax outperforms other antimicrobials

