

# Plastic SHAPES for Machining



A ThyssenKrupp  
Services company

**ThyssenKrupp Materials NA**

AIN Plastics Division



ThyssenKrupp

# The 'AIN Advantage'

If you machine plastic shapes, you owe it to yourself to check into the superior service you get from the plastics professionals at AIN Plastics Division of ThyssenKrupp Materials NA.

- Materials from the world's leading manufactures including: Quadrant EPP, Westlake Plastics, IL Norplex, Ensinger-Hyde, DuPont, Sheffield Plastics, Cyro and many others.
- Competitive pricing on our large stock of engineering plastic and high performance materials.
- Each order is accompanied by a certificate of conformance.
- The most complete line of products and services in the market today.
- Complete range of sizes and shapes
  - large diameter rod
  - oversize sheet, rod, and tube
  - thick gauge sheet
- Application and machining assistance available.
- AIN Plastics offers just-in-time shipping. Stock materials ship within 24 hours to machine shop customers.

## Value-Added Processing Capabilities

AIN Plastics offers machine shop and fabrication customers a complete array of primary processing options to save you time and money. Take advantage of these value-added services and our extensive experience.

### Custom Cutting

Our precision sawing services utilize state-of-the-art equipment. Our cutting professionals are trained to maximize your yield and offer tight tolerances on many popular materials.

### Precision Sanding, Planning and Centerless Grinding

Our sanding capabilities allow you to specify a custom thickness for many materials including phenolic!



## Spotlight on Vespel®

AIN Plastics is an authorized distributor of DuPont™ Vespel® shapes including rod, plate, balls, rings, and discs in the following formulations:

- **SP-1**—Unfilled polyimide base resin
- **SP-21**—15% graphite filled
- **SP-22**—40% graphite filled
- **SP-211**—15% graphite filled and 10% teflon filled
- **SP-3**—15% MoS<sub>2</sub> filled
- **ST Formulations**—Super tough, fiber reinforced

**New!**

*If it's not certified, it's not Vespel®!*

Call your AIN Plastics sales representative today for fast delivery of this advanced engineering material from our extensive inventory.



**Call toll free: (877) 246-7700** [www.ainplastics.com](http://www.ainplastics.com)

# Standard Products for Machining

## General Purpose Engineering Plastics

- Acetal — AIN carries a full line of Acetron GP products that are low stress and porosity free for the best machining.
- ABS
- Celcon®
- Noryl®
- PTFE
- UHMW
- TIVAR® products (TIVAR 88, HOT, Uniblend and more)
- Nylon — Type 6 cast, Type 6/6 extruded, or filled with MDS, glass, or oil; sheet, rod, or tube. AIN has it!
- Delrin®, Delrin 150, Delrin AF
- Ertalyte®
- PET
- Polyurethane
- Polycarbonate — machine grade
- Hydex®
- PPO
- Teflon®



Acetron GP



UHMW-PE

## High Performance Plastics

- Fluorosint®
- PEEK
- PPSU
- Ryton®
- Ultem®
- Semitron® static dissipative materials
- Ketron® PEEK HPV
- PEI
- PSU
- Techtron® HPV
- Vespel®
- PBI
- PPS
- Radel®
- Torlon®



Vespel Shapes

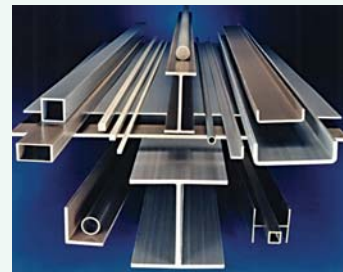
## High Pressure Laminates

We carry an extensive line of laminated materials and glass-filled structural shapes including:

- Phenolics in canvas, paper, and electrical grades
- Copper Clad
- Composites
- G-10/FR4, G-11
- GPO materials
- Micarta
- CE
- Extren® Shapes
- G-9, G-5
- LE
- XX and XXX



High Pressure Laminates



Extren Shapes

Ask about our custom cutting and sanding of phenolic materials. AIN can do it!

## Polyolefins & Corrosive Environment Materials

AIN offers a variety of materials for difficult chemical applications in valves, chemical processing equipment, and tank fabrication. Special colors and formulations are also available.

- HDPE
- LDPE
- CPVC
- Marine Board
- Hydlar®
- Polypropylene
- PVDF
- Kynar®
- PVC
- Cutting Board



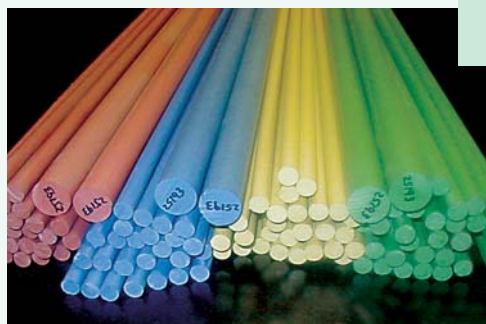
Corrosion Resistant

Call toll free: (877) 246-7700 [www.ainplastics.com](http://www.ainplastics.com)

# Medical Grade Materials

AIN stocks a full line of medical grade and FDA compliant materials. We offer certificate of conformance and traceability for the most quality conscience shop.

- Acetal (several colors!)
- Polypropylene
- Radel®
- Ultem®
- Tygon® Tubing
- TECAPEEK™



TECAPEEK™

# Additional Products

- Epoxy, Resins, and Casting Materials
- Tooling and Modeling Boards
- Adhesives
- Teflon Fabrics and Tapes
- Vinyl Sheet
- Seelye® Welders and Welding Rod
- Cleaners and Degreasers
- Threadlockers
- Solvents, and Cements
- Strip Heaters
- Vinyl Strip Curtains
- Light Louvers



Aerosol Adhesives

*One number to call for the best names in plastics...*



ALCAN COMPOSITES



DuPont™ Vespel®



Sheffield Plastics Inc.  
A Bayer Polymers Company



Toll free nationwide:

**(877) 246-7700**

www.ainplastics.com

A ThyssenKrupp Services company

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ThyssenKrupp Materials NA, Inc.

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