

# PTFE & Polymer Solutions

*For critical semiconductor applications*



With extremely delicate parts that require a high level of precision, and the need for uncompromising contamination reduction, there is simply no room for error. With decades of experience in polymer engineering and fabrication, Technetics PTFE & Polymer Solutions can meet these demanding needs with vertical integration and innovative solutions that keep you profitable. Our advanced manufacturing facilities and application engineers have the materials expertise and production capabilities to meet all of your standard and custom polymer needs.

## **ISO 9001:2008 CERTIFIED**

We are ISO 9001:2008 certified and can provide material testing, statistical process control or other quality assurances if needed. We are dedicated to ensuring your solution is right the first time.

## **Machined Polymer Component Solutions**

With our machining services, we will machine your custom component to your exact specifications in a wide variety of engineered polymers including PTFE, G-10, PEEK, REXOLITE®, ULTEM®, NORYL®, DELRIN®, Acrylic, and UHMW. Our expert machinists consistently hold extremely tight tolerances for a variety of critical application components and our dedicated facility makes certain your parts have no contamination from metal or other sources.

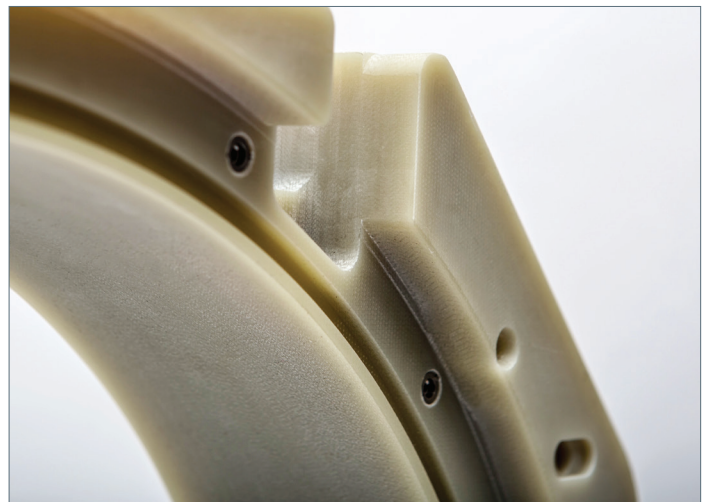
Semiconductor machined component solutions include:

- No-touch covers
- Wafer carriers
- Door kit assemblies
- Isolators
- Wafer handoff
- Seal rings

- End caps
- Chemical enclosures
- Manifolds
- Insulating blocks
- Frames / covers
- Chambers

## **MACHINING CAPABILITIES**

- Manual lathe to 54" diameter
- Precise drilling of complex geometries and holes as small as .003"
- Machine parts as small as .020"
- CNC milling of components to 30" x 60" x 30"
- CNC turning of components up to 22" in diameter
- Horizontal milling
- 5 axis capabilities
- Polishing
- Water jet cutting



**TECHNETICS PTFE &  
POLYMER SOLUTIONS**  
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**Technetics**  
GROUP

EnPro Industries companies

## PTFE Rod, Cylinder & Sheet Solutions

Technetics PTFE & Polymer Solutions offers TEXOLON® PTFE rods, cylinders, and sheets that deliver uncompromising performance and unsurpassed precision for critical semiconductor applications. All are available in a variety of PTFE formulations including customized fillers and reinforcements to suit individual applications. Some standard formulations include:

- Style 8764 - Premium Virgin PTFE
- Style 8765 - Virgin PTFE
- Style 8790 - Modified PTFE
- Style THP - High Purity for critically clean applications

### HIGH PURITY FOR CRITICALLY CLEAN APPLICATIONS

Our high purity PTFE rods, cylinders and sheets are used for a variety of applications where cleanliness is essential. The material used is specifically created to meet critical semiconductor needs and is processed, packaged and labeled in a strictly controlled clean environment creating the highest purity products.

### SKIVED SHEET AND FILM

- Available .001" - .375" thick and in widths up to 60"
- Continuous rolls or cut to your desired length
- Slit rolls, strips or stock sizes available

### MOLDED SHEET

- Available .063" - 8" thick
- Standard sheet sizes include:  
24" x 24", 36" x 36" & 48" x 48"
- Special cut sizes available customized to your specification

### CYLINDERS AND RODS

- Molded rod and tube 1" to 62" diameter with virtually unlimited tooling combinations to produce the nearest net size to meet any finished size requirement



## Custom Fabrication Solutions

Our fabrication department builds high quality, completely customized polymer equipment specializing in semiconductor industry needs. We offer complete configurations of formed and machined parts. We also provide installation of commercial hardware, cold bending on a 48" press brake and CNC routing up to 60" x 120".

### CUSTOM ASSEMBLIES INCLUDE

- Chemical fail-safe enclosures
- Pass throughs
- Valve boxes
- Glove boxes
- Megasonic tanks
- Clean room tables
- Doorkits
- MRI cradles



## Component Cleaning Solutions

Whether your components need deionized water immersion, degreasing, or isopropyl alcohol wiping, we can provide the level of cleanliness you need consistently over large or small production volumes. Our tanks have the ability to hold components up to 26"L x 26"W x 10"D with black light testing for contaminant free assurance.

### CLASS 100 CLEAN ROOM

Our Class 100 certified clean room is equipped with several deionized (DI) water and degreasing tanks to ensure your components are cleaned to the highest standards exactly how and when you need them. Our clean room operators are expertly trained and follow strict gowning procedures and process controls to maintain the cleanest environment possible.

