

## Ensinger Penn Fibre

Thin Gauge, High Performance, and Engineering Thermoplastics  
Including Sheets, Coils, Strips, Punched and CNC Parts

### Materials

#### High Performance > 300° F

- PEEK** (Polyetheretherketone) - TECAPEEK®
  - Natural, Black, Glass Filled
- PPS** (Polyphenylenesulfide) - TECATRON®
  - 40% Glass Filled Black
- PEI** (Polyetherimide) - TECAPEI™ Sabic Ultem™
  - Natural, Glass Filled
- PSU** (Polysulfone) - TECASON®
  - Natural, Black

#### Engineering 185° F - 300° F

- POM** (Acetal Polyoxymethylene) - TECAFORM®
  - Homopolymer: DuPont™ Delrin® - Natural, Black, Colors, Delrin AF Blend (PTFE)
  - Copolymer: Natural, Black, Carbon Black, Colors
- Nylon** (Polyamide) - TECAMID® 66
  - Natural, Black, Carbon Black, Colors
  - Glass Filled, MO (Moly Filled), Heat Stabilized, Super Tough
  - PENNITE® 4512 Glass Filled Type 6
- PBT** (Polybutylene Terephthalate) - HYDEX® 4101
  - Natural, Black, Colors

#### Industrial < 185° F

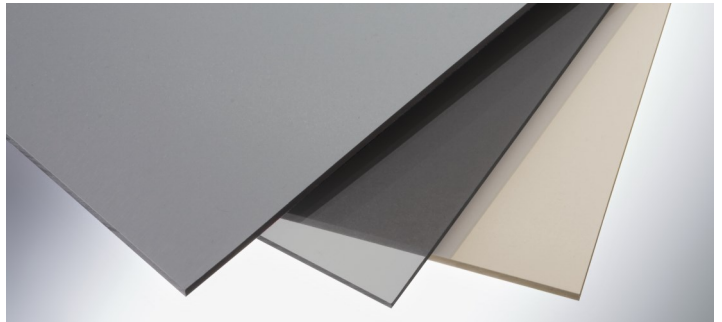
- PP** (Polypropylene) - TECAFINE® PP
  - Natural, Black, Colors
- PE** (Polyethylene) - TECAFINE®
  - HDPE & LDPE - Natural, Black, Colors
- ABS** (Acrylonitrile Butadiene Styrene) - TECARAN™
  - Natural, Black, Colors

Over 100 plastic solutions also including:  
BoPET, HIPS, PC, PET, PETG, PPO, PVDF,  
Vulcanized Fiber... and more

### Capabilities

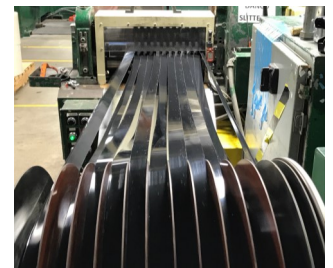
#### Sheets

- .031" to .250" thick, 24" wide x 48" to 144" long
- .062" to .250" thick, 48" wide x 48" to 144" long
- Custom sizes within ranges listed above
- Limited matte finish capabilities



#### Coils and Strips

- .010" to .125" thick
- Slit widths .250" to 24" wide
- Capability to slit sheet
- Cut to size/Chop Off
- 3", 6", & 16" cores available



#### Punched Parts - Washers and Custom Parts

- +/- .005" tolerances
- Outside Diameter (OD) Up to 5.5"
- Produced in various thicknesses listed above
- Digital Comparator for precise measurement, QC testing, and reporting for parts
- CNC capabilities for "Thin Gauge" sheets

## Punched and CNC Parts

- Washers
- Wear Plates
- Seals
- Shims
- Gaskets
- Insulators
- Connectors
- Cable Ties
- Other Finished and Semi-Finished Parts

Master coils in stock, slit to customer defined width or used internally for quick turnaround to produce punched parts

Over 3,000 dies in stock with custom dies available



## Why Ensinger?

**Wide Range of Materials and Shapes Available**  
**Multiple Processes and Custom Capabilities**  
**Global Platform and Distribution Network**  
**Application and Product Knowledge**  
**Top Quality Resin Suppliers**  
**ISO 9001:2015 Certified**  
**Market Development**  
**Domestic Production**  
**Technical Support**



## Markets and Applications

- |                      |                       |
|----------------------|-----------------------|
| Aerospace            | Mechanical            |
| Agriculture          | Oil & Gas             |
| Automotive           | Orthotics             |
| Batteries            | Packaging & Conveying |
| Building & Constr.   | Personal Care         |
| Chemical Processing  | Printing              |
| Electrical           | Semiconductor         |
| Fasteners & Fittings | Shims & Gaskets       |
| Fixtures             | Solar Power           |
| Food Processing      | Stamping              |
| General Industry     | Stiffeners            |
| Guitar Picks         | Thermoforming         |
| Heavy Equipment      | Wear Strips           |
| Ind. Machinery       | ...and various other  |
| Ind. Printing        | markets               |
| Machine Shops        |                       |

## Advantages of High Performance and Engineering Plastics

- |  |                                 |
|--|---------------------------------|
| → Weight reduction                     | → Cost savings                  |
| → Increased wear life                  | → Noise reduction               |
| → Corrosion resistance                 | → Reduce energy consumption     |
| → Chemical resistance                  | → Ease of fabrication           |
| → Heat resistance                      | → High reliability              |
| → Durability                           | → Low maintenance               |
| → Lubricity                            | → Flammability resistant grades |
| → Various coefficients of friction     | → FDA approved grades           |
| → Reduce downtime and maintenance cost |                                 |



## Ensinger Penn Fibre

*Our wide range of materials, shapes, and capabilities offers our customers flexibility and customization*