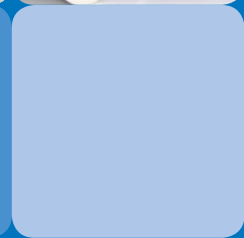
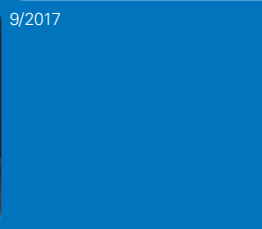
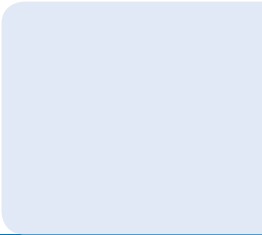
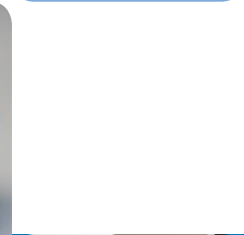
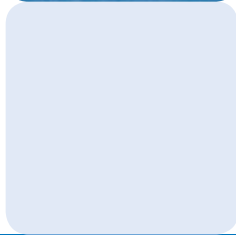
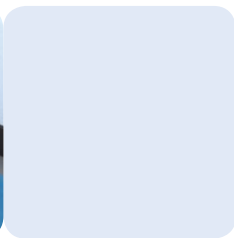




# RÖCHLING

**Leading Manufacturer of Engineering Plastics  
Semi-finished Sheets, Rods, Tubes  
and Profiles**



## About Röchling Engineering Plastics



As the American subsidiary of Röchling Engineering Plastics and member of a billion dollar German organization with a global presence, we continue to be at the forefront of product development and manufacturing technology in the sheet, rod and tube semi-finished plastics industry.

The organization in North America is comprised of two manufacturing entities: Röchling Engineering Plastics (REP USA) and Röchling Engineering Plastics LTD. (REP Canada) in addition to a strategically placed warehouse and sales office in California.

Röchling Engineering Plastics is considered the one company that will consistently deliver quality, high-performance UHMW-PE, HDPE, PP, Nylon, Acetal and specialty products — along with very solid value.

At Röchling, that's just not enough — because we believe that's the least you should expect.

As your partner, we understand we have to keep you ahead of the curve on global trends, see the value of your new ideas and provide the opportunity to help you realize non-standard solutions from start to finish.

This is no part-time commitment — it's a commitment that comes from every level of our organization. Röchling is striving continuously to marry production and business process efficiencies to a formalized, integrated product and service quality program before Lean and Six Sigma were officially around.

Each day, internal task teams from the technical, quality, marketing and account management areas assemble to determine exactly what's necessary to meet, and then exceed, the customer's project objectives.

This goes beyond getting the order out the door on time and to spec — it's about finding whole solutions. We are collaborating with you every day to not just meet your highest expectations, but to help you shape new ones.

## A History of Competence

The history of Röchling begins in 1822 when Friedrich Ludwig Röchling founded a coal trading company in Völklingen. His four nephews, the "Röchling brothers," began producing coal and processing industrial iron in 1849. In 1920, Röchling acquired its first plastics company, making it a trailblazer in plastics processing.



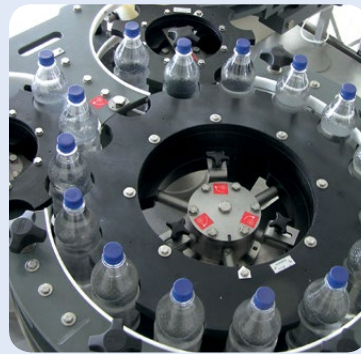
While Röchling has since divested of all holdings in other manufacturing industries, it has not lost sight of plastics and has expanded its range of products through acquisitions. Today Röchling focuses only on plastics production, and strives to be the leading global manufacturer of thermoplastics and specialty materials. Headquartered in Mannheim, Germany, and with divisions in 22 countries and a growing global presence, the Company is known for its competence and quality in automotive, engineering and medical plastics.

For more information about the history of Röchling Plastics, visit [www.roechling.com/roechling-group/history/](http://www.roechling.com/roechling-group/history/)

**Serving  
the World  
through  
Industry**

Röchling manufactures materials that are used in thousands of applications across numerous industries. From creating plastics that allow for faster sorting and processing of packages to products that help save lives through the medical industry, Röchling materials positively impact the world every day.

To learn more about the industries that we serve, log onto [www.roechling.com](http://www.roechling.com).



**Food Processing**

Wear strips; chain guides; guide rails; rollers; mixer paddles; scraper blades; baffles; timing screws; star wheels



**Conveyor and Packaging**

Straight and curved chain tracks; gears; sorter push blocks; chute liners; belt guides; under-chain wear strips



**Polystone® M (UHMW-PE)**

As a major manufacturer of Polystone® M (ultra-high molecular weight Polyethylene), Röchling Engineering Plastics is among the world's leading suppliers to the conveying, material handling and packaging industries. Polystone® M offers a low coefficient of friction, excellent abrasion resistance, high impact strength, chemical resistance and little or no moisture absorption, plus it is easy to machine.

**Available in:** Virgin Natural / Virgin Colors / Reprocessed / MPG Glass-filled / Matrox / UV Stabilized / Anti-static / Conductive / M-Slide / Oil Filled / Metal Detectable / X-Ray Detectable / M-Soft / Rubber Backed / Flame Retardant / LubX® C / LubX® CV

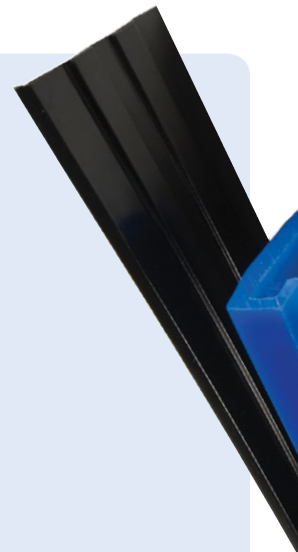
**Applications:** Food and beverage processing / bottling / canning / chain and belt guides / bin and mixer linings / straight and curved tracks / wear strips and guides / rollers and roller sleeves / gears and sprockets / pillow blocks / car wash rollers / truck bed liners / side rails and skirt boards / bushings and bearings / timing screws / bumper and sorter push blocks / idler sprockets



**Quality Assurance**

Röchling assures our quality through consistency and performance. Certified to ISO 9001: 2015 and with a strong quality control program in place, we follow detailed procedures throughout each department to ensure that our products meet all of the necessary industry requirements.

- Lot and batch traceability
- Ultrasonic testing
- ASTM specifications
- Material certifications
- Thickness, diameter and flatness tolerance requirements
- Physical properties testing and validation





### Chemical and Tank

Tanks for storing liquids; ducts and fume hoods; semiconductor processing; fire truck tanks; galvanic tanks



### Bulk Material Handling

Front-end loader bucket liners; off-road truck liners; hopper liners; shovel liners; scrapers; drag line bucket liners



### Transportation

Mud flaps; rail car lining; hopper liners; chute liners; front-end loader bucket liners; ship holds



### Oil & Gas

Seals; valve seats; sheaves; winch drum shells; ROV components; wear pads; rollers; sensors; retainer rings

## Polystone® G (HDPE) and Polystone® P (PP)

Röchling Polystone® G (High-density Polyethylene) and Polystone® P (Polypropylene) sheets are extruded with exceptionally close tolerances and, since they are stress-relieved, you can be assured of the flatness tolerances. Our unique in-line trimming process produces a clean, square cut that does not require re-trimming. Polystone® G and P have exceptional impact and chemical resistant properties and are easily fabricated and welded for use in many industry applications.

### Polystone® G (HDPE)

**Available in:** Natural / Colors / Pipe Grade / Cut-Rite 51 / Play-Tec

**Applications:** tanks and vessels / food cutting boards / light-duty tanks / playground structures / light-duty guides and rails / pipe flanges and manholes / light-duty chute and bin liners / boat accessories

### Polystone® P (PP)

**Available in:** Natural (Homopolymer) and (Copolymer) / Colors / White / Röchling Grey / Flame Retardant / Foamlite®

**Applications:** structural tanks and linings / plating barrels / ducts and fume hoods / semiconductor processing equipment / orthotic and prosthetic devices / pump and valve components / fire truck tanks / laboratory surfaces and cabinets

## Specializing in custom products for specialized industries and applications

Röchling stands for innovation in plastics, and in order to provide you with state-of-the-art materials, that meet the highest standards in the industry, we continuously invest in new and innovative products and manufacturing technologies. We provide a complete line of thermoplastic solutions for a wide variety of applications.

### X-Ray and Metal Detectables

Ideal for the food and beverage industry, we offer a unique selection of detectable plastics in UHMW-PE, Acetal and PEEK.

### Profiles

Röchling is a leading provider of stock and custom profiles used in conveyor, material handling, packaging and bottling industries. Our high-impact, high-wear resistant UHMW-PE or LubX® shapes allow for faster run speeds and noise reduction due to their lower coefficient of friction.

### Polystone® Matrox

Polystone® Matrox reduces friction between bulk material and the walls of a hopper or chute to allow better material flow and a fully-emptied hopper.

### SUSTAPEEK Calendered Sheets

The new Röchling thin-gauged calendered SUSTAPEEK sheets open up additional design possibilities while saving time and money in the production of systems and components.

### Foamlite®

Foamlite® is an innovative plastic sheet with a foam-like inner core which reduces the overall weight of the sheet by 30 percent. The closed-cell structure gives it high mechanical stability in addition to its excellent chemical resistance.

### Welding Rod

Don't compromise the integrity and look of your tank by mixing and matching your sheets and welding rod. Röchling offers a full range of thermoplastic products that give you a better bond and optimal color match by using the same resin source.

### Sustamid® 6 FR

With a very high LOI (Limiting Oxygen Index), Sustamid® 6 FR, is your ideal choice for applications that require high flame retardant and mechanical properties combined in a lightweight material.



**Röchling produces stock and custom-shaped profiles using Polystone® M and LubX® materials.**





## Marine and Defense

Seals and valve seats; ammunition racking; boat and dock bumpers; bearings; decking; gangways and steps

## Medical

Surgical instruments; knee and hip sizing trials; dental instruments; diagnostic and lab equipment; pharmaceutical processing

## Printables

Signage; binders; loose-leaf accessories; presentation portfolios; greeting cards; POP displays

## Aerospace

Engine housings; landing gear components; wing control systems; interior parts

## Acetal, Nylon and High-Performance Materials

Röchling is a leading global manufacturer of engineering and high-performance plastics. From acetals and nylons to a full range of specialty materials, we provide stock shapes for machining into parts that are used in almost every major industry. Most of our high-performance materials have excellent mechanical and electrical properties with the ability to maintain their physical integrity under thermal, chemical or electrical stressors at elevated temperatures.

### Sustarin® C (Acetal Copolymer)

**Available in:** Natural / Black / Custom colors

### Sustarin® H (Acetal Homo polymer / Delrin®)

**Available in:** Natural / Black / Custom colors

### Sustarin® H AF (Acetal Homo Polymer / Delrin®)

**Available in:** AF Blend (13% PTFE)

### Sustarin® H AF DE588 (Acetal Homo polymer)

**Available in:** Meets military specifications (NAV/SEA)

### Sustamid® 6G (Cast Nylon)

**Available in:** Natural / Molly-filled / Blue / Oil-filled

### Sustamid® 66 Natural (Extruded Nylon)

**Available in:** Natural / Black / Molly-filled / 30% Glass-filled

### SUSTAPEEK (Polyetheretherketone)

**Available in:** Natural / Black / Glass-filled / Bearing Grade

### SustaPEI (Polyetherimide - ULTEM®)

**Available in:** Natural / Black / 30% Glass-filled

### Sustanat PC (Polycarbonate, Machine Grade)

**Available in:** Natural / Black / 20% Glass-filled

### Sustatron PPS (Polyphenylene Sulfide)

**Available in:** Natural



### SustaABS (Acrylonitrile Butadiene, Styrene)

**Available in:** Natural / Black

### Sustadur PET (Polyethylene Terephthalate)

**Available in:** Natural / Black

### Sustadur PBT (Polybutylene Terephthalate)

**Available in:** Natural

### SustaPVDF (Polyvinylidene Fluoride)

**Available in:** Natural

### Sustatron PSU (Polysulfone)

**Available in:** Natural / Colors

### Sustason PPSU (Polyphenylsulfone - Radel®)

**Available in:** Natural / Colors

### SustaPPO (Noryl®)

**Available in:** Black

### Acetal, nylon and high-performance material applications:

bushings and bearings / rollers and gears / valves and manifolds / wear pads and sheaves / sliding pads / down-hole oil well parts / fluid handling / semiconductor processing / medical components / aircraft components / electronic insulators





# RÖCHLING

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The information listed herein is stated to the best of our knowledge and is intended to provide a general guideline for Polystone® and its uses. The values given are based on laboratory testing backed with global industry experience. All properties in this brochure have performed equal or better in laboratory testing. However, the data should not be considered as guaranteed specific properties. Suggested applications are provided for information only and are not specific recommendations.