

About Röchling Group

The Röchling Group has been shaping industry worldwide for 200 years. We transform the lives of people every day with our customised plastics. They reduce the weight of cars, provide high performance medical devices and serve as the building blocks for a broad range of products from construction to semiconductors.

Our workforce of nearly 11,700 people is located in close proximity to our customers in 90 locations in 25 countries. The Röchling group's three divisions generated joint annual sales of 2.603 billion euros in 2022.

We are your reliable partner within the Semiconductor industry.

Contact

Do you have applications and projects where our materials could provide a benefit? If so, we can support you with the selection of suitable materials for your projects.



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Your high-performance supplier for the Semiconductor industry

Plastics for the most demanding requirements.

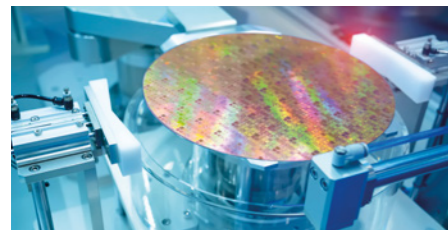
 Semiconductor


We at Röchling Industrial support you with a wide range of thermoplastic materials.

Are you as a manufacturer of machines and systems for the semiconductor industry looking for materials with specific properties?

Chemical resistance, high-purity, low- and high-temperature performance as well as dimensional stability are properties that must be considered when selecting semiconductor materials. For example, what type of plastics are critical for wet bench devices where chemical resistance is important? Another example, do you need antistatic or flame-retardant materials for equipment in the fab?

As a manufacturer of highly sensitive IC chips, two aspects are particularly important: Your equipment must meet the highest standards and your production processes and systems must be suitable for the chip manufacturing processes. We support you with a wide range of thermoplastic materials that are precisely tailored to your individual requirements.



↑ Front-End applications: Handling process

Typical areas of application

Our materials are primarily used for equipment in the Front- and Back-End sector and for factory equipment in the semiconductor industry. Machined components for prototypes or small series complement our extensive portfolio.

1. Front-End applications

For example machine components for lithography, etching, cmp and wet processes and wafer handling.



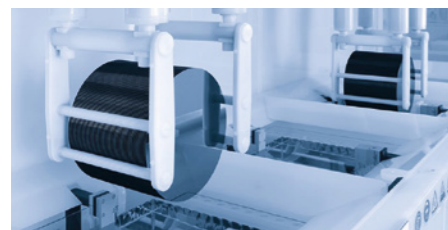
↑ Back-End applications: test socket for chips

2. Back-End applications

For example test sockets for chip verification, machine components for dicing and packaging.

3. Factory equipment in the semiconductor sector

Linings, walls also for clean rooms, enclosures, covers, shelves



↑ Factory equipment: wet bench environment

Your advantages

- Antistatic
- Chemical resistance
- Low particle generation in bearing and wear applications
- Low outgassing characteristics
- Low levels of extractables during chemical exposure
- High temperature capabilities
- Electrical insulation properties
- Dimensional stability

Flame retardant FM4910 qualified materials available.



High performance materials with specific properties for the Semiconductor industry

	Chemical resistance	Temperature resistance	Dimensional stability	Mechanical properties	
PI					
EtroX® I CM UHT	★★	★★★★★	★★★★★	★★★	Ultra High Temperature
EtroX® I CM	★★	★★★★	★★★★★	★★★★	
PEEK					
SustaPEEK	★★★	★★★	★★★★	★★★	FM4910 resin used
SustaPEEK CF30	★★★	★★★	★★★★	★★★★	Conductive
SustaPEEK CM CF30	★★★	★★★	★★★★★	★★★★★	Compression moulded, Conductive
SustaPEEK MOD ESD 90	★★	★★★	★★★	★★★	Antistatic
SustaPEEK CM ESD 90	★★	★★★	★★★	★★★	Compression moulded, Antistatic
EtroX® V	★★★	★★★	★★★★★	★★★	Optimized for small drillings
PEI					
SustaPEI	★★	★★	★★★★	★★	
SustaPEI ESD 90	★★	★★	★★★	★★★	Antistatic
PET					
Sustadur® PET	★★	★	★★	★★	
POM-C					
Sustarin® C	★★	★	★	★★	
Sustarin® ESD 90	★	★	★	★	Antistatic
PP					
Polystone® P	★★★	★	★	★	Normal and double annealed
PVC					
Trovidur® EC-FR	★★★	★	★	★★	FM4910
PVDF					
SustaPVDF	★★★★	★★	★	★	
SustaPVDF ESD 60	★★★	★★	★	★	Conductive
Polystone® PVDF	★★★★	★★	★	★	FM4910
ECTFE					
Polystone® ECTFE	★★★★★	★★	★	★	FM4910 resin used
PTFE					
Fibracon® PTFE	★★★★★	★★★	★	★	
Fibracon® PTFE CLF	★★★★	★★★	★	★	Antistatic