

For lighter vehicles with better performance

High-performance plastics for motorsport

In motorsport, materials have to meet the very highest requirements. Drivers can compete at the top only if their vehicles constantly show high performance and resilience. We offer a large selection of high-performance plastics with and without carbon or glass fibre reinforcement for the construction of motorsport vehicles. In comparison to conventional materials such as metals used in motorsports, they offer

- low weight with high strength and toughness and
- high dimensional stability even at high temperatures.

This allows you to construct

- lighter vehicles
- offering high performance and improved fuel efficiency.

Materials

Depending on the application, optimum results can be achieved in motorsport with a range of different materials. Proven Röchling materials include:

- SustaPEEK
- SustaPEEK CF 30 / GF 30 / MOD
- SustaPEEK CM CF 30
- Sustason® PPSU
- Sustatron® PPS / MOD
- SustaPEI
- PTFE

Further materials on request.

Production range

Depending on the material:

- Compression moulded and extruded sheets
- Rods, tubes
- CNC-machined components



Proven materials: We support KA Racing from the Karlsruhe Institute of Technology with material and guidance of our high-performance plastics.

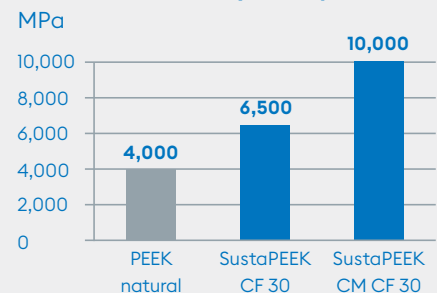
SustaPEEK CM CF 30

SustaPEEK CM CF 30 is a carbon fibre reinforced PEEK produced by compression moulding. With a modulus of elasticity of 10,000 MPa (see chart) and an excellent combination of low density and high stiffness, this material is ideal for meeting the high demands of motorsport.

Properties

- Low density and high stiffness
- Excellent dimensional stability

Modulus of elasticity – comparison

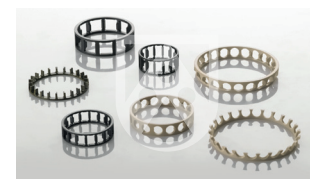


Tested in acc. with DIN EN ISO 527 – Tensile modulus of elasticity

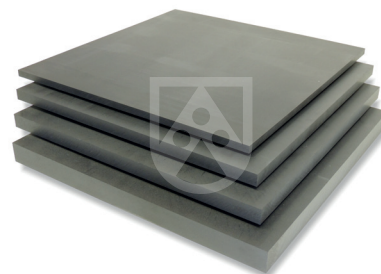
- Flame-resistant (UL 94 V0)
- Cont. operating temperature up to 250° C

Applications

Typical components made from our materials include bearing cages, friction bearings, housings, mounting elements, covers, insulation parts and throttles.



Bearing cages made of SustaPEEK



Compression moulded sheets made of SustaPEEK CM CF 30

Contact

We would be happy to advise you in detail about the properties and possible uses of our materials.

Please write or call:

Röchling Sustaplast SE & Co. KG
T +49 2621 693-0 | info@sustaplast.de