

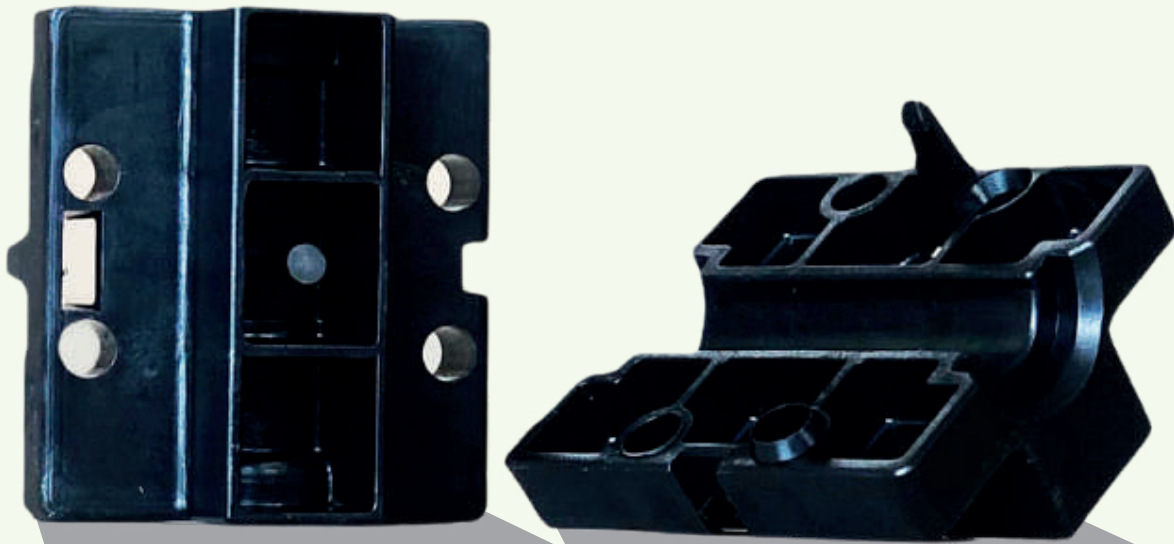
# Injection Moulded Components

Complex polymer components can be injection molded based on customer drawings or designed in-house by our team to **match the requirements** of the end application.

Poly Fluoro offers a fully integrated moulding set-up from part design and mould construction to product development and bulk production.

We offer a range of grades, which can be **customized** with fillers and additives to enhance the component's end-properties. Working with OEMs around the world, we offer high-precision injection moulded parts where machining solutions are not possible for the volumes and/or part construction.

**Material selection** is essential in getting the **right solution** for a given application. We understand the strengths and limitations of each material and accordingly work with the end-users to narrow in on the **most effective** options.



Polymer	Properties	Application	Temperature
Virgin PEEK	<ul style="list-style-type: none"> <li>- Excellent chemical resistance and mechanical properties at elevated temperatures</li> <li>- High tensile strength and dimensional stability</li> </ul>	<ul style="list-style-type: none"> <li>- FDA approved</li> <li>- Most effective as a seal, backup ring, V-packing, or Chevron seal</li> <li>- Used as rotary seals in Nuclear applications</li> </ul>	-40°C to 260°C
Carbon filled PEEK	<ul style="list-style-type: none"> <li>- Many properties similar to Virgin PEEK.</li> <li>- Particularly suitable for elevated temperatures and high load situations.</li> </ul>	<ul style="list-style-type: none"> <li>- Low coefficient of friction.</li> <li>- Suitable for extremely corrosive applications.</li> </ul>	-40°C to 260°C
Acetal or Delrin	<ul style="list-style-type: none"> <li>- Displays good resistance to wear and deformation under load.</li> <li>- Easy to machine.</li> <li>- Dimensionally very stable.</li> </ul>	<ul style="list-style-type: none"> <li>- Excellent for valve seat applications</li> <li>- Excellent for ferrules, probes, and sensors.</li> <li>- Enhanced properties can be achieved by filling with Glass and PTFE.</li> </ul>	up to 80°C
PPS or Ryton	<ul style="list-style-type: none"> <li>- Excellent chemical resistance and mechanical properties at elevated temperatures.</li> <li>- High tensile strength</li> <li>- Dimensional stability.</li> </ul>	<ul style="list-style-type: none"> <li>- Used extensively in pulp and paper manufacturing as it resists specific chemicals.</li> <li>- Cost effective alternative to PEEK.</li> </ul>	-40°C to 220°C
PVDF or Kynar	<ul style="list-style-type: none"> <li>- Excellent chemical resistance.</li> <li>- High tensile strength.</li> <li>- Dimensional stability.</li> <li>- Resistant to creep.</li> </ul>	<ul style="list-style-type: none"> <li>- Used in chemical industries for linings, fittings, and sleeves.</li> <li>- Excellent in semi-conductor components.</li> </ul>	-40°C to 220°C
PA or Nylon	<ul style="list-style-type: none"> <li>- Displays good resistance to wear.</li> <li>- Offers thermal and electrical insulation in moderate conditions.</li> <li>- Easy to machine.</li> <li>- Dimensionally very stable.</li> <li>- Inexpensive.</li> </ul>	<ul style="list-style-type: none"> <li>- Excellent as bobbins, sliding elements, and insulating sheaths.</li> <li>- PA6, PA66, and PA12 variants - can be filled with glass or PTFE for enhanced properties.</li> </ul>	up to 80°C

## Why Poly Fluoro?

- We have **fully customizable** grade ranges to match OEM requirements.
- We match the **best-in-class** global norms with our high precision tolerance on dimensions.
- We deliver **superior performance** by using the highest quality materials available, offering unmatched end properties.

