Why PTFE – and Acoplastic?

Since 1969 we have specialized in customizing PTFE formulations and construction plastic for Danish and international industrial companies. As an active player, we focus on developing formulations, logistics, documentation and services, so that we can regularly contribute to strengthening your business. We want to be the “crankshaft” at your production plant that is always reliable and generates added value.

PEEK – A High Tech alternative

Acoplastic has a large amount of experience with the development and production of PEEK which is a high tech alternative for plastic construction parts. This stable structural material tolerates extreme temperatures; in addition, PEEK has one additional requirement: food requirements.

- Stability of shape – especially good bendability – and tensile strength, as well as good dimensional stability. This property is maintained at high temperatures.
- Working temperature between -60°C to 250 °C
  PEEK can be supplied with various additives and fillers that can add properties to the material, e.g. PTFE, carbon, carbon fibre and graphite.

Other strong alternatives

Besides PTFE and PEEK, Acoplastic also processes a number of other high Tech types of plastics – each with unique advantages and properties. This applies to e.g.:

- PVDF/PCTFE – other fluoroplastics suitable for e.g.,
  electronic measuring equipment.
- PSU – Resistant to radiation, high temperatures and good chemical resistance.
- PPS – Suitable for mechanical parts in corrosive environments and high temperatures.

Acoplastic, Acoplastic A/S Løvdalsvej 5 3000 Helsingør www.acoplastic.eu

PTFE brings together many unique features in one solution:

- Minimal friction – it can, for example, be a rotating part of a given machine
- Easy release function (non-stick surface) – suitable as bearings, sliding elements, etc.
- Self-lubricating properties
- Great chemical resistance
- Not degradable by UV light
- Working temperature between -100°C to 260 °C
- Suitable for mounting systems, e.g., the food industry
  and for collecting environmental samples
- Ageing resistant (long functioning time) – can be used in places with minimal accessibility, e.g. in closed systems

PTFE and High Tech Plastic Solutions

Certificates

DS/EN - ISO 9001:2015
Approvals for raw materials including conformity with the following:
WRA • REACH • ROHS • EU/10-2011 • EU/2004-2004 • EU/2002-2004 • FDA

Production Part Approval Process (PPAP)

Acoplastic offers PPAP and in accordance with your requirements, we specify and document the process, raw materials and quality control through our production apparatus. This increases the transparency of the production process and ensures that our products are of the highest performance and quality, as well as in accordance with your requirements.

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"With a razor sharp approach to design and development, we are able to minimize your development costs – also when it comes to producing high quality products in smaller series."

**Strengthen product development**

– draw on Acoplastic’s competences in all product phases and details

Acoplastic has over 47 years of experience in developing specialized components made of PTFE and High Tech plastics for, among other things, electronic measuring equipment, pumps, food equipment, pharmaceutical equipment, valves and fittings.

**Counselling is our most important offering**

Dialogue and sparring open new opportunities and lead to more effective solutions. Our objective is to add value to your production through competent sparring, engineering and finally our material and mechanical properties. We have actually done this when the idea is being developed and until the delivery of the final part.

Idea-opening with an emphasis on price and quality

As Acoplastic, we have contributed to the development of hundreds of innovative solutions based on PTFE (Polytetrafluoroethylene) and High Tech plastics (e.g., PEEK, PPS, HDPE).

Our knowledge and experience in your product for achieving the best possible results. We offer a razor sharp approach to design and development, we are able to minimize your development costs – both by producing high quality products in large or smaller series, and prototypes or smaller test series.

**The right material selection**

When we are aware of the product’s context and technical specifications, we also know precisely which material can best solve the task at hand. Our analysis is primarily based on an evaluation of the basic material itself and our experience with the material under the given conditions. Through a close collaboration with some of the world’s most innovative raw materials suppliers, we can obtain exactly the material properties that are needed.

Over 250 formulations in 47 years

Acoplastic has fine tuned the manufacturing process according to your wishes with customized PTFE formulations. We are able to do this by, i.e., adding various additives and fillers such as glass, coal, carbon fibres, ceramics, ekonol and graphite or metallic components such as stainless steel and brass.

Proven quality in all parts

Our quality chain has only room for the strongest link. This applies to everything from raw material supplier to transporters. The strongest requirements are those we set for ourselves. In the area of productions, we have, among other things, developed processes which ensure the quality and traceability of manufactured items. We can also plan the quality process in collaboration with you so that it fully complies with your company’s outlined procedures. It gives us an additional advantage that our deliveries can be included directly in your production line without further inspections.

**Production**

PTFE from our own moulding department

With our own moulding department, we have 100% control of all parameters and can, while your product is in a very high level. In addition to compounds for our own production, Acoplastic also supplies PTFE for sale in semi-finished products such as Acoflon® (our own branded) and PTFE lubricate paste, depending on the task.

Processing with minimal tolerances

Our high-technology machinery and experienced employees operate on a daily basis with tolerances of +/- 22 µm and Ra<0.8. The unique surfaces provide you with significant competitive advantages e.g. when it comes to machine parts, seals and bushings in larger series.

Checks and documentation

During the entire production process there are regular visual and mechanical checks at all levels – from raw material receipt to the final delivery. We ensure that all items live up to your quality and documentation requirements so that they can be included directly in your production line.

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**Short and precise delivery times**

Acoplastic makes sure that your production run will work smoothly and faster. Typically, we can deliver in two weeks after the final ordering – and even faster in urgent situations.

**Idea-ripening with an emphasis on price and quality**

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**Counselling is our most important offering**

Dialogue and sparring open new opportunities and lead to more effective solutions. Our objective is to add value to your production through competent sparring, engineering and finally production. We start from where you are and develop your project, both in the design phase and in the implementation. We are also involved in your project from start to finish, and not just in the manufacturing phase. We can also advise you on PTFE and High Tech plastic solutions that can be used at different stages of production.

We provide you with in-house solutions to your problems, and not just a product to solve your problem. We always work with the best materials and design that are required to make your production as smooth as possible. We commission our solutions in cooperation with you, and we always have your interest in mind. We also use our knowledge of how to make the most of the latest technology to make your production as efficient as possible.

**Advantages**

- **Immediate solutions**
  - We can provide you with a solution to your problems immediately.
  - We can also advise you on PTFE and High Tech plastic solutions that can be used at different stages of production.

- **In-house solutions**
  - We provide in-house solutions to your problems, not just a product to solve your problem.

- **Consulting**
  - We offer consulting services that are tailored to your specific needs.

- **Design and development**
  - We can provide you with in-house solutions to your problems, not just a product to solve your problem.

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**Idea opening with an emphasis on price and quality**

As Acoplastic, we have contributed to the development of a multitude of innovative solutions based on PTFE (polytetrafluoroethylene) and High Tech plastic (e.g., PEEK, PPS, HDPE). Our knowledge and experience in this endeavor for achieving your goals is significant. Through our approach to design and development, we are able to minimize your development costs – both by producing high quality products in larger or smaller series, and prototypes or smaller test series.

**The right material selection**

When we are aware of the product’s context and technical specifications, we also know precisely which material best fits the task at hand. Our analyses are primarily based on an evaluation of the basic material itself and our experience with the material under the given conditions. Through a close collaboration with some of the world’s most innovative raw materials suppliers, we can obtain exactly the material properties that are needed.

**Over 250 formulations in 47 years**

Acoplastic has the know-how and the manufacturing process according to your wishes with customized PTFE formulations. We are able to do this directly, i.e., adding various additives and fillers (e.g., glass, carbon fibres, ceramics, ekonol and graphite or metallic components such as stainless steel and bronze).

**Proven quality in all parts**

Our quality chain has only room for the strongest link. This applies to everything from raw material supplier to transporters. The strongest requirements are those we set for ourselves. In the area of products, we have, among other things, introduced a number of procedures, including ISO 9001, which ensures the quality and traceability of manufactured items. We can also plan the quality process in collaboration with you so that it fully complies with your company’s outlined procedures. It gives us an additional advantage that our deliveries can be included directly in your production line without further inspections.

**Acoplastic has over 47 years of experience in developing specialized components made of PTFE and High Tech plastics for, among other things, electronic measuring equipment, pumps, food equipment, pharmaceutical equipment, valves and fittings.**

**Quality that can be seen, followed and measured**

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**Production**

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**Processing with minimal tolerances**

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**Checks and documentation**

During the entire production process there are regular visual and mechanical checks at all levels – from raw material supplier to transporters. The strongest requirements are those we set for ourselves. We ensure that all items live up to your quality and documentation requirements so that they can be included directly in your production line.

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Why PTFE – and Acoplastic?

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PTFE brings together many unique features in one solution
- Minimal friction – it can, for example, be a rotating part of a given machine
- Easy release function (non-stick surface) – suitable as bearings, sliding elements, etc.
- Self-lubricating properties
- Great chemical resistance
- Non degradable by UV light
- Working temperature between ÷100°C to 260 °C
- Suitable for mounting systems, e.g., the food industry and for collecting environmental samples
- Ageing resistant (long functioning time) – can be used in places with minimal accessibility, e.g., in closed systems

Besides PTFE and PEEK, Acoplastic also processes a number of other high tech types of plastic – each with unique advantages and properties. This applies to e.g.:

- PVDF/PCTFE – Other fluoroplastics suitable for e.g., electronic measuring equipment
- PSU – Resistant to radiation, high temperatures and good chemical resistance
- PPS – Suitable for mechanical parts in corrosive environments and high temperatures

At Acoplastic, we work with all types of plastic materials for finished machine parts according to your wishes.

PTFE has a large amount of experience with the development and production of PEEK, which is a high tech alternative for plastic construction parts. This stable structural material tolerates extreme temperatures and is additionally food safe and meets the requirements for food applications.

- Stability of shape – especially good bendability – and tensile strength, as well as good dimensional stability. This property is maintained at high temperatures.
- Working temperature between ÷60°C to 250 °C
- PEEK can be supplied with various additives and fillers that can add properties to the material e.g. PTFE, carbon, carbon fibre and graphite.

Other strong alternatives
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Certificates
- ISO 9001:2015
- Approvals for raw materials including conformity with the following:
  - WRAS
  - REACH
  - ROHS
  - EU/10-2011
  - EC/1935-2004
  - EC/2023-2006
- FDA

Production Part Approval Process (PPAP)
Acoplastic offers PPAP and in accordance with your requirements, we specify and document the processes, quality assurance and quality control through our production organization. This ensures transparency and traceability to the output. The parts are delivered according to performance and quality always live up to your expectations.

PEEK – A High Tech alternative
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Acoplastic is the Danish professional partner for PTFE and High Tech Plastic Solutions.
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Customized high-quality components

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