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Advanced Engineered
Plastic Products

ECONOMOS[®]

Advanced Engineered Plastic Products

ECONOMOS[®]

A world leader in manufacturing of custom-made high performance sealing solutions presents

Advanced Engineered Plastic Products

Machined Plastics Products for today's AND tomorrow's industry.



EPP & AEPP Production Center at Technoplast Economos[®] in Asse/Belgium

ECONOMOS[®] has extended its expertise gained over many years in the field of machined polymer and elastomer seals into the demanding AEPP marketplace. As the inventors of the machined seal concept we have grown into being the number 1 choice for specialist seals, sealing elements and ancillary products worldwide.

As an international company we operate in just about all industries; through these we have gained an unrivalled knowledge by servicing blue chip companies wherever they may be.

To be successful in these markets requires not just knowledge of plastics and elastomer machining techniques but also world-class experience in supplying top quality engineered solutions to our customers.

Our expertise ranges from elastomers through high performance polyurethanes to the most demanding engineering and advanced engineering plastics and by using sophisticated machining techniques we can manufacture both simple and complex components to either your or our design.



Milling tools



Threading tools



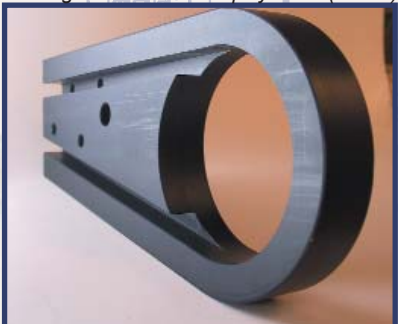
Cutting tools

What are Advanced Engineered Plastic Products?

Plastics come in many different types and have many different properties so it is vital that the optimum material is selected for the duty required by the component. Advanced Engineering Plastics are those that have particularly high resistance to temperature in combination with high structural integrity.

The range of plastics materials that offer these characteristics can be bewildering. There is sometimes more than one choice for an application. Much depends on other factors, for instance, the media in contact with the component and the duty to which it is put. There are materials that can perform continuously at temperatures in excess of 300°C and intermittently at 500°C, and as these plastics can be very expensive and difficult to process, ECONOMOS[®] can advise which material will cost effectively solve your problem.

Chain guide in a modified polyamide (PA6 G)

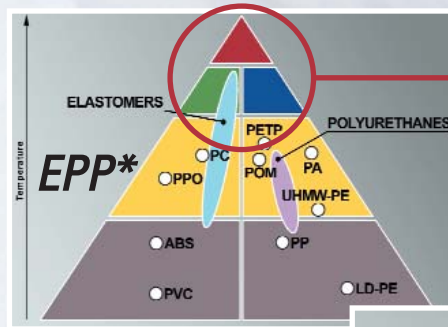


Bellows made of TPU (H-ECOPUR)



Insulator made of a duroplast material mix

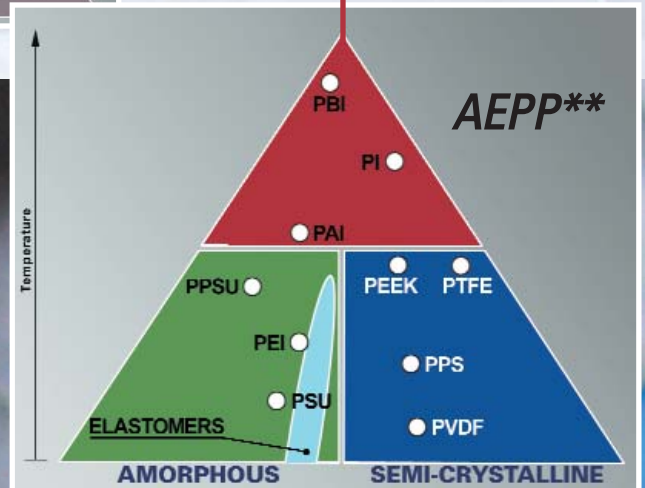




Plastics Materials Pyramid:

Typical materials processed:

- Polyamide - Nylon
- Polyamide - Nylon with fillers
- Polyoxymethylene - Acetal
- Polycarbonate
- Polyethylene terephtalate - PET
- Polyethylene - HMWPE, UHMWPE
- Polybenzimidazole - PBI
- Polyimide - PI
- Polyamide Imide - PAI
- Polyetheretherketone - PEEK
- Elastomers - NBR, H-NBR, FPM, FKM, EPDM, MVQ
- Polyphenylsulphone - PPSU
- Polysulphone - PSU
- Polyetherimide - PEI
- Polyurethane - TPU, CPU
- Polyvinylidene fluoride - PVDF
- Polytetrafluoroethylene - PTFE



* Materials for Engineered Plastic Products
 ** Materials for Advanced Engineered Plastic Products

Special EPP & AEPP applications:

Wide range of other special materials on request - please contact ECONOMOS®.



Valve housing in PETP



Clamping fingers for fillers in polyamide (PA6)



Parts for canned soup fillers in polyacetal (POM)



EPP-parts made of TPU (H-ECOPUR®)



Valve housing in polyacetal (POM)

The variety of applications where AEPP's are used is almost unlimited. Due to our wide range of materials and our expertise in plastics and polymer science, we can provide the best possible solution for your application.

ECONOMOS® is the only supplier in the field of mechanical engineering who can service your every need. From Engineering and Advanced Engineering plastics products to high performance Sealing Solutions, all manufactured utilising Economos' state-of-the-art CNC machining system.

So whether you require prototypes, weight reduction or higher performance contact ECONOMOS® today.

Free advisory service available.

Chain guides in polyamide (PA6 G)



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