# The specialist in processing of engineering plastics





### Customized Product Solutions

Manufacturing customized product solutions is what we do in our dayto-day business. Our consultants and developers are in close contact with the production department. This proves to be a great advantage for our customers as it helps us produce highly efficient products such as:

- Manufacturing parts as per the drawings or samples
- Sliding and guiding elements
- Sliding profiles and chain guides
- Impact strips and protective strips
- CNC milling and turned parts
- Plates and cuttings
- Round-section rods

### **Diverse Applications**

Arcoplast plastic components are applied in a diverse range of fields. Our products can be found in the following areas:

- Mechanical and Plant Engineering
- Food and beverage industry
- Automobile industry
- Paper industry and machine construction
- Electronics industry
- Drive and Material handling systems
- Laboratory furnishings
- Installation of exhibitions and stores
- Manufacture of chemical processing equipment
- Mining, Construction of ports and fenders
- Packaging and filling industry
- Environmental Protection

### Your Advantage

Thanks to our highly qualified team and modern machinery, we guarantee our customers the highest quality standards with the shortest production times. Large qualities of products or even jobs that are particularly time-consuming can be completed quickly and in a flexible manner.

- Quick order processing
- One-stop service
- Series production and prototype building
- High level of flexibility
- Short production times
- Delivery on request
- Quality assurance

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#### **Quality-Guarantee**

Arcoplast products are subjected to the most stringent quality controls. With this seal of quality approval we guarantee products of the highest quality.

### Materials

### Properties

<b>PE 500 - virgin</b> Polyethylene (PE-HMW)	<ul> <li>very good chemical resistance</li> <li>low water absorption</li> <li>good shock absorption and impact resistance</li> <li>physiologically inert</li> <li>several colours are suitable for food contact</li> </ul>
<b>PE 500 - regenerated</b> Polyethylene (PE-HMW)	<ul> <li>recycled material</li> <li>promising price/performance ratio</li> <li>low water absorption</li> </ul>
<b>PE 1000 - virgin</b> Polyethylen (PE-UHMW)	<ul> <li>very good chemical resistance</li> <li>very good sliding characteristics</li> <li>low water absorption</li> <li>high wear resistance</li> <li>high sound absorption</li> <li>high impact resistance</li> <li>high abrasion resistance</li> <li>several colours are suitable for food contact</li> </ul>
<b>PE 1000 - regenerated</b> Polyethylene (PE-UHMW)	<ul> <li>good wear resistance</li> <li>good sliding characteristics</li> <li>promising price/performance ratio</li> </ul>
PE 1000 + Mos2 Polyethylene + Lubricant	<ul> <li>very low coefficient of sliding friction</li> <li>very good sliding characteristics</li> <li>self-lubricating</li> <li>high wear resistance</li> <li>good chemical resistance</li> <li>high sound absorption</li> <li>high UV-resistance</li> </ul>
PE 1000 DSL (friction-modified)	<ul> <li>extremely low coefficient of sliding friction</li> <li>particularly good sliding characteristics</li> <li>self-lubricating</li> <li>antistatic</li> <li>high abrasion resistance</li> <li>high sound absorption</li> <li>good chemical resistancet</li> <li>high UV-resistance</li> </ul>
<b>PE 1000 CP</b> (wear-modified, glass bead additive)	<ul> <li>very good abrasion resistance</li> <li>good sliding characteristics</li> <li>high impact resistance</li> <li>very good chemical resistance</li> <li>long service life</li> </ul>
PE 1000 BOR	• higher capacity to absorb hard radiations
PE 1000 FLH	<ul> <li>flame retardant, UL94, V-0</li> <li>good abrasion resistance</li> <li>good sliding characteristics</li> <li>high impact resistance</li> <li>antistatic</li> <li>high UV-resistance</li> </ul>
PE 1000 HT	<ul> <li>high temperature stability</li> <li>high abrasion resistance</li> <li>very good chemical resistance</li> <li>low coefficient of sliding friction</li> <li>oxidation inhibitor</li> <li>higher dwell time even at higher temperatures 80 - 125° C</li> </ul>
PE 1000 RB	<ul> <li>composite material made of PE 1000 and rubber, the rubberized side can be pasted.</li> <li>very good sliding characteristics</li> <li>high wear resistance</li> <li>very good chemical resistance</li> <li>high impact resistance</li> <li>anti-adhesive behaviour</li> <li>good sound absorption</li> </ul>
PE 1000 AST - anti-static	<ul> <li>lower surface resistance</li> <li>very good chemical resistance</li> <li>high wear resistance</li> <li>very good sliding characteristics</li> <li>high sound absorption</li> <li>high impact resistance</li> <li>high abrasion resistance</li> </ul>
PE 1000 - antimicrobial	• antimicrobial effect
PA 6 Polyamide	<ul> <li>high mechanical strength and rigidity</li> <li>good toughness (even at cold temperatures)</li> <li>good damping behaviour</li> <li>high wear resistance</li> <li>very good electrical insulation properties</li> </ul>
Other materials on request.	

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<b>PA 6 + Mos2</b> Polyamide + lubricant	<ul> <li>high mechanical strength</li> <li>high degree of toughness (even at cold temperatures)</li> <li>good damping behaviour</li> <li>better wear resistance</li> <li>better sliding characteristics than PA 6</li> </ul>
PA 6.6 Polyamide	<ul> <li>very high degree of hardness</li> <li>high wear resistance</li> <li>low impact resistance</li> <li>high resistance to thermal deflection</li> </ul>
<b>PA 6 G</b> Cast polyamide 6	<ul> <li>high abrasion and wear resistance, hardness and rigidity</li> <li>low residual stresses</li> </ul>
<b>PA 6 G + Mos2</b> Cast polyamide 6 + lubricant	<ul> <li>very high abrasion and wear resistance, hardness and rigidity</li> <li>self-lubricating property</li> </ul>
<b>PA 6 G + oil</b> Cast polyamide 6 + oil	<ul> <li>wear resistance is up to 5 times higher than that of other polyamide</li> <li>excellent sliding property</li> <li>self-lubricating properties</li> </ul>
<b>PA 6 with Glass fibre</b> Polyamide 6 + glass fibre	<ul> <li>high crushing strength and creep resistance</li> <li>high rigidity</li> <li>high temperature stability</li> <li>higher dimensional stability</li> </ul>
PA 12 Polyamide	<ul> <li>good chemical resistance</li> <li>low moisture absorption</li> <li>very good impact resistance</li> </ul>
<b>POM C</b> Polyoxymethylene Copolymer	<ul> <li>high rigidity</li> <li>good elastic properties</li> <li>good toughness</li> <li>low moisture absorption</li> <li>dimensionally very accurate</li> </ul>
<b>PP-H</b> Polypropylene	<ul> <li>difficult to break, hard</li> <li>low density</li> <li>high resistance to thermal deflection</li> </ul>
<b>PET</b> Polyethylene terephthalate	<ul> <li>excellent dimensional stability</li> <li>very good sliding characteristics</li> <li>high degree of hardness</li> <li>high rigidity</li> <li>high mechanical strength</li> <li>high degree of toughness</li> <li>low water absorption</li> <li>dimensionally very accurate</li> </ul>
<b>PVDF</b> Polyvinylidene fluoride	<ul> <li>high mechanical stability</li> <li>high long-term service temperature</li> <li>high resistance to chemicals</li> <li>very good UV resistance and weathering resistance</li> </ul>
<b>PTFE</b> Polytetrafluorethylene	<ul> <li>very high chemical resistance</li> <li>non-inflammable, high thermal stability</li> <li>highly resistant to weathering</li> <li>low stability</li> <li>very low coefficient of friction</li> </ul>
<b>PEEK</b> Polyetheretherketone	<ul> <li>maximum limit of operating temperature in air is very high</li> <li>high mechanical stability, rigidity and creep resistance, even at high tempera- tures</li> <li>excellent chemical and hydrolytic resistance</li> <li>very good dimensional stability</li> <li>excellent frictional and wear properties</li> </ul>
<b>PAI</b> Polyamide imide	<ul> <li>maximum limit of operating temperature in air (250° C maintained continuously) is very high</li> <li>excellent retention of mechanical stability, rigidity and creep resistance over a wide range of temperature</li> <li>extremely low coefficient of linear expansion up to 260° C</li> <li>excellent frictional and wear properties</li> <li>very good UV-resistance</li> <li>excellent resistance to hard radiations (Gamma- and X-rays)</li> <li>inherent flame retardance</li> </ul>

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