



FUN AND PASSION IN THE DEVELOPMENT OF BETTER HIGH PERFORMANCE PLASTICS FOR SLIDING ELEMENTS

OUR MISSION



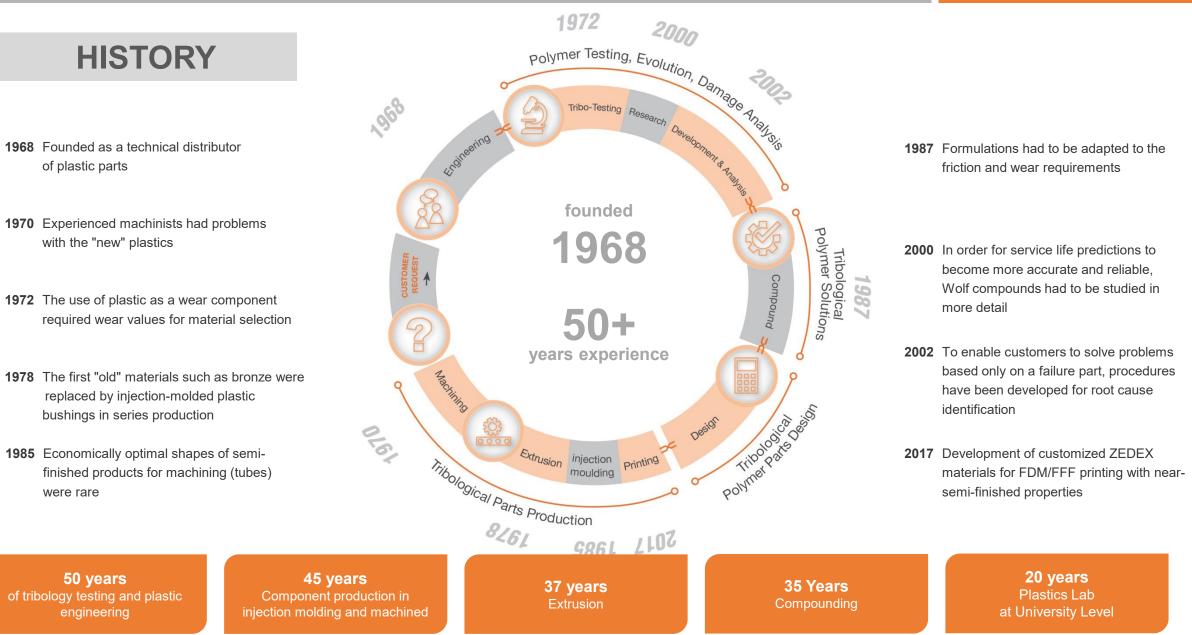


WE WANT EVERYONE TO NOW THAT WE OFFER THE BEST HIGH PERFORMANCE PLASTIC SLIDING ELEMENTS

OUR GOAL











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OUR EXPERIENCE IS YOUR PRODUCT

"From the idea to the finished product everything from a single source."



A product goes through several phases in its development.

Ø21

From the idea to the finished product, we map all process steps of product development and can react flexibly and creatively at any time to realize a successful product.





OUR EXPERIENCE IS YOUR PROFIT

" Meeting requirements no more, but also no less."



A machine element made of plastic should be designed in such a way that it meets the requirements but does not have any unnecessary safety features.

Only experience, knowledge and creativity can achieve this goal.





OUR EXPERIENCE IS YOUR SAFETY

"We offer 50 years of experience in the processing and dimensioning of highperformance plastics."

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Always one step ahead through experience. Our greatest source of knowledge is the characteristic values from over 50 years of materials and component testing.

You can benefit from our many years of success.



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Research

PRODUCT

OUR DAILY BUSINESS

RESEARCH



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We constantly monitor new developments and trends on the market. We carry out basic research in order to understand plastics even better and to integrate the findings into our products so that our ZEDEX[®] high-performance plastics are always up to date

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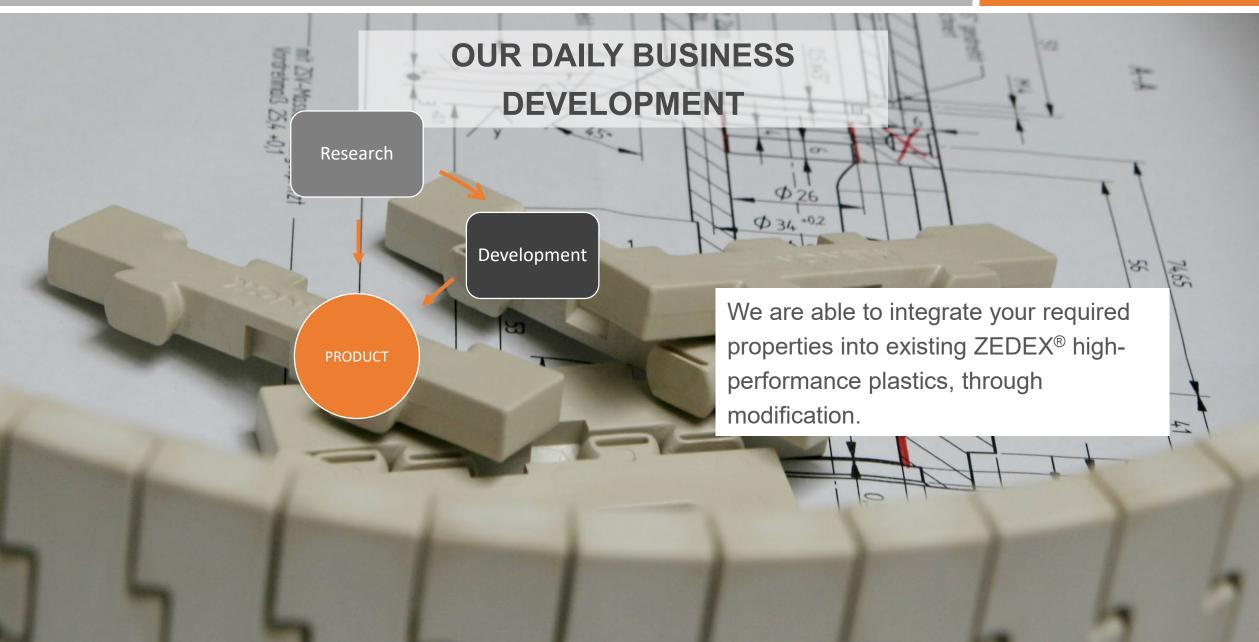
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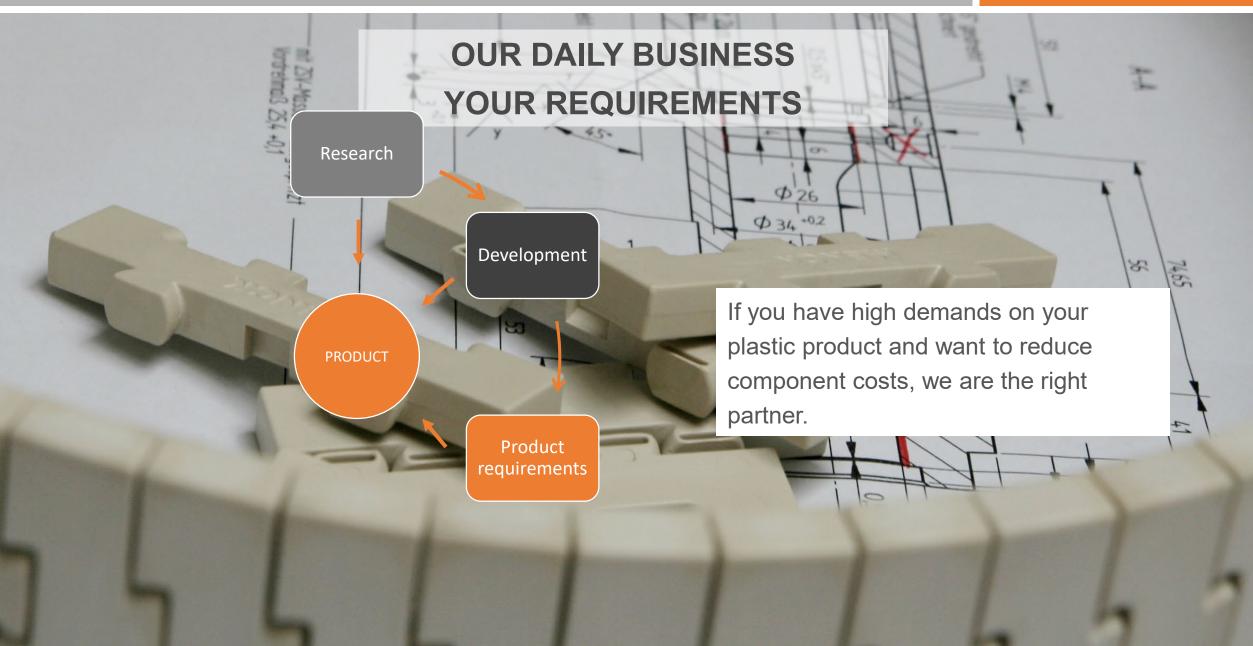












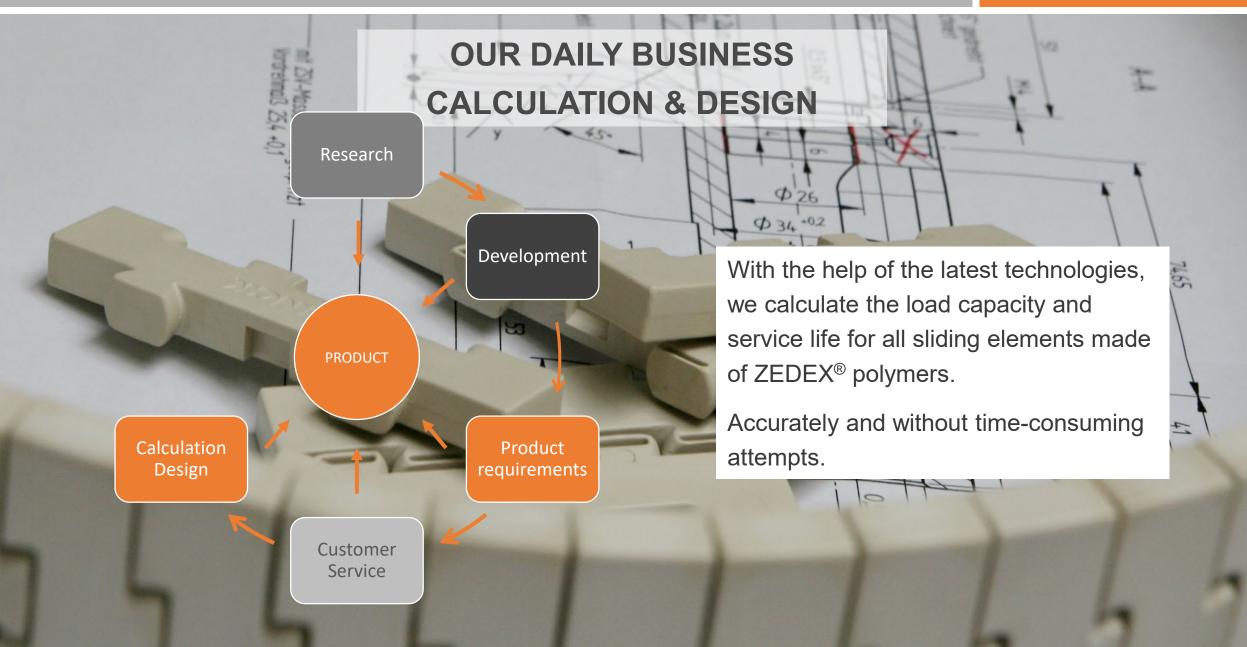






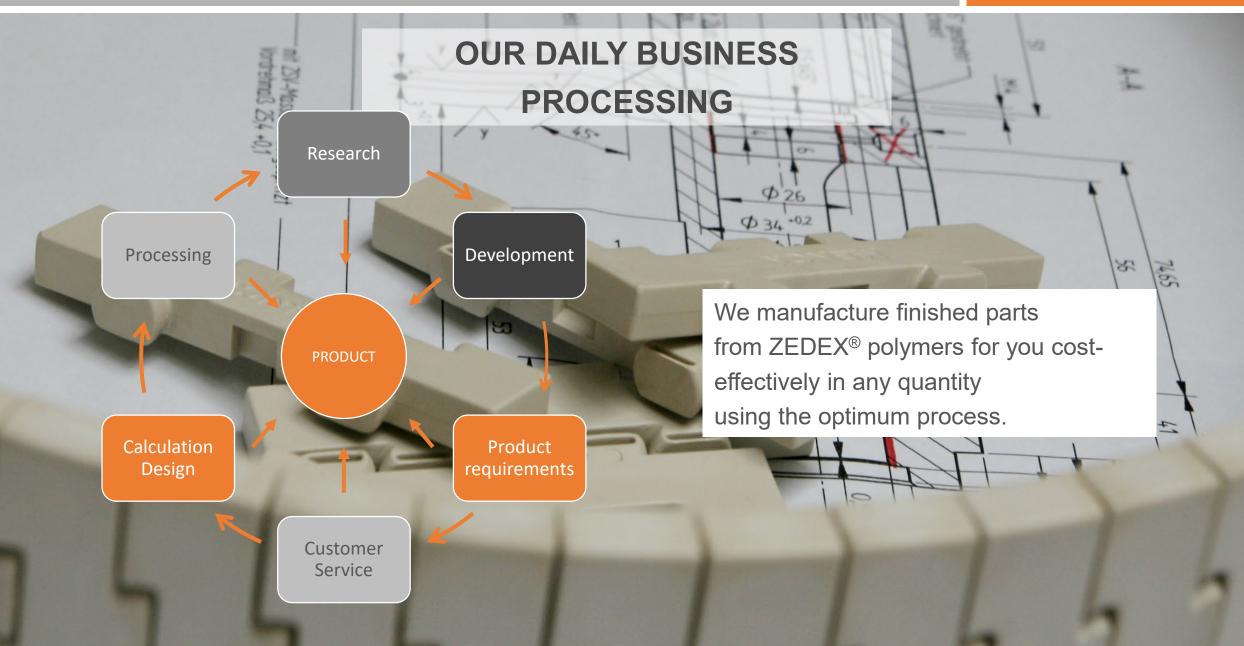






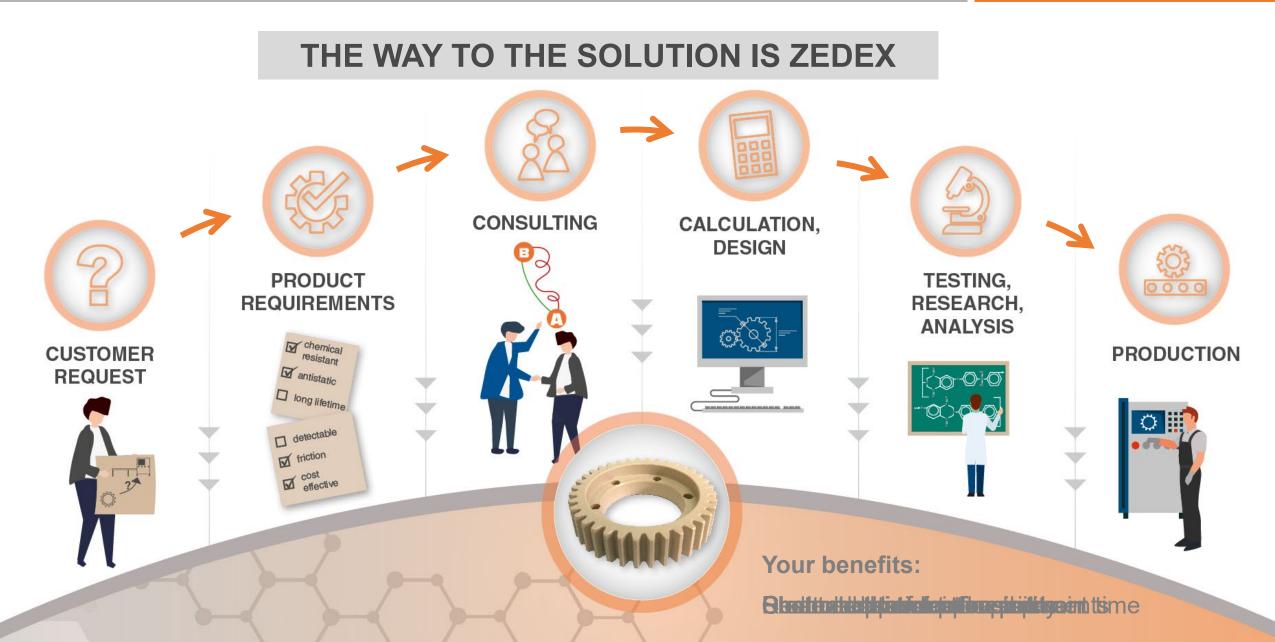














WHAT IS ZX[®] OR ZEDEX[®]

ZEDEX[®] and the abbreviation ZX[®] are trademarks of Wolf Kunststoff-Gleitlager GmbH and identify the high-end products of Wolf Kunststoff-Gleitlager GmbH.

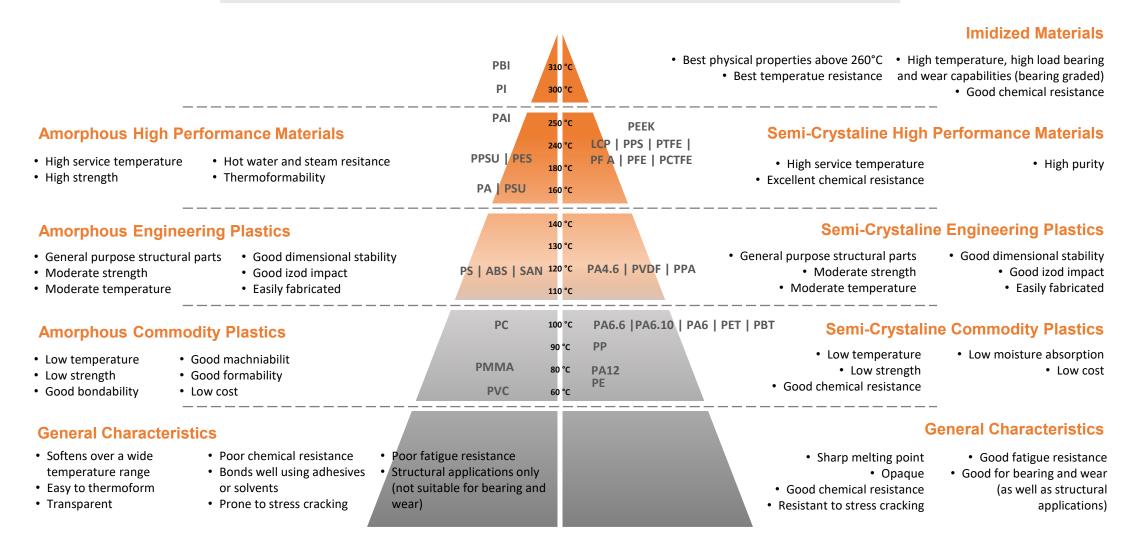
The ZEDEX[®] material families are based on engineering & highperformance polymers and are were born from the experience gained in our over 50 years of activity in solving the problems deriving from the use of plastic materials as machine elements.





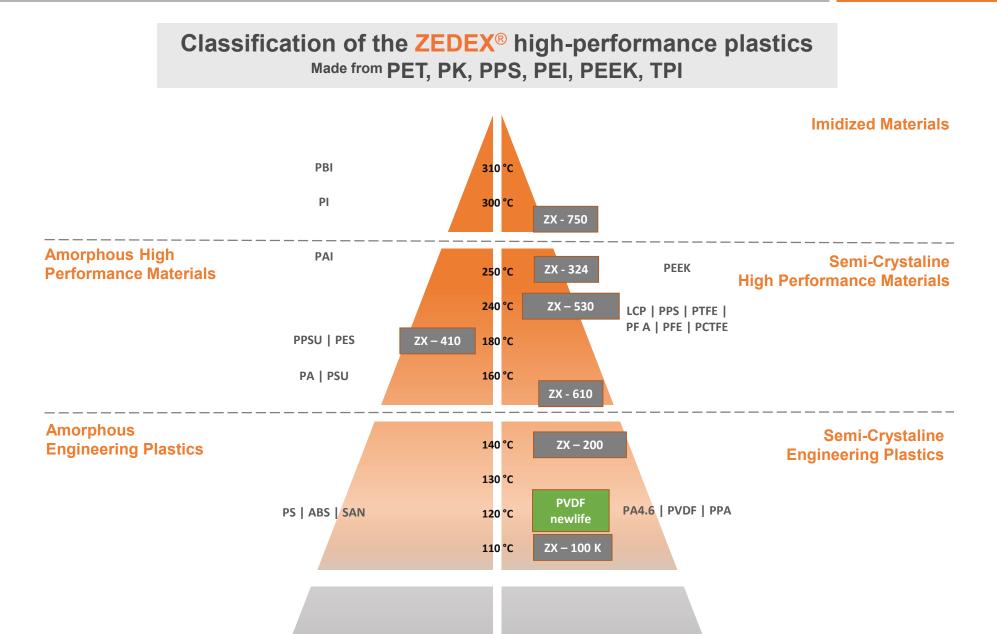
















ZEDEX[®] MATERIALS CAN BE

Basic Type

As a basis for our compounds, we use base polymers which have a suitable property profile for sliding elements.

Modifications

We have developed successful tribocompounds for the individual base polymers over the last 50 years.

ZX-324 (PEEK BASIS)

ZX-324V1T (Tribo and cost-optimized)

Special Comp

NEW From the molecule to the application chemically coupled PTFE / high performance plastics based on PPS, PAEK, PES, PEI, LCP available.

Based on the basic types or modifications, we manufacture customer or application-specific compounds with functional integration.

In some cases, an optimization is not necessary, so we also process commercially available polymers. Such as:

- PET PEI • •
- **PVDF** PEEK •
- ETFE TPI • ٠
- PK LCP •
- PPS PAI

The differences to the base polymer are mostly in:

- Higher elasticity and rigidity
- Reduction of friction and wear
- **Higher precision**

ZX-324V1CFG

(Base ZX-324V1T additionally thermal conductive)

Possible modifications:

diffusion affordable resistan long harder and lifetime resistar stiffer food low compliant dry and wet running wear detectable dimensionally stable











ZX-100 THE "LITTLE PEEK"

ZX-200 THE ELASTIC MOLDING WONDER

ZX-100 is the all-round solution for a wide variety of applications in the food sector or for rough outdoor applications.

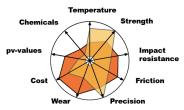
It is designed for dry running and saves weight and costs compared to bronze. The ZX-200 family is based on PK and, like PEEK, belongs to the polyketone group. It has excellent elasticity, meaning it can be stretched greatly with very little permanent deformation and returns to its original state after relaxation.

ZX-324 THE ALL-ROUNDER UP TO 250°C

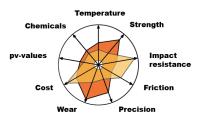
Suitable for high temperatures combined with high surface pressure, because ZX-324 is based on PEEK.

The modified grades of the ZX-324 family have a higher wear resistance than PEEK.

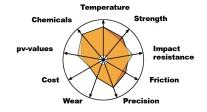
ZX-100K vs. Bronze



ZX-200 vs. PA12



ZX-324V1T vs. PEEK













ZX-410 THE PRECISE UP TO 180 °C

ZX-530 THE SPECIALIST FOR CHEMICALS

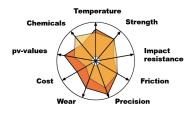
For the medium sliding speed range, large surface pressure and high precision - also ideally suited for high temperatures. Ideally suited for applications with aggressive chemicals. ZX-530 combines the advantages of PTFE and ceramics, convinces with low friction values and high wear resistance. ZX-530 is stiffer than PTFE.

ZX-750 ALL-ROUNDER IN AREAS WITH HIGH TEMPERATURES

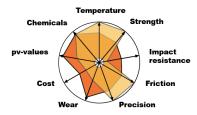
ZX-750 has the highest maximum pv values of the ZEDEX[®] materials.

Even temperatures up to 300 °C leave it cold.

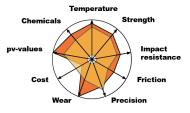
ZX-410VMT vs PEEK mod.



ZX-530 vs. Ceramics



ZX-750V5KF vs. PAI











Our contribution to sustainability

The new life family contributes significantly to the reduction of waste, the use of resources and primary energy. In comparison to thermal recycling, a considerable amount of CO2 emissions is avoided.

The products of the ZEDEX® new life family are subject to the rigorous checks of process values & technical characteristics, which are also applied when processing virgin goods. The high quality standards should encourage our customers to opt for products with a new life cycle.





DELIVERY FORMS OF OUR PRODUCTS

PLASTIC GRANULES



CUSTOMER SPECIFIC PARTS



SEMI FINISHED PRODUCTS



INTERCHANGEABLE PARTS



COATING, COATED PARTS



3D PRINTING













IF U WANT TO KNOW MORE



- Semi-finished products, granules
- Special compounds



Tribological Part Production

- Machining
- Injection molding
- 3D printing



Polymer Parts Design

- Consulting, calculation
- Design



Polymer Testing, Evolution, Damage analysis

- Polymer testing, failure analysis
- Compound development



Tribological Polymer Parts

- Precision
 - plainbearings,
- slideway bearings
- Movement nuts, gears



Onlineservice

- Calculation-tools
- Online Warehouse
- Online Shop