



11/2012

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# ZELLAMID®

Finished Parts  
Mechanical Engineering Division

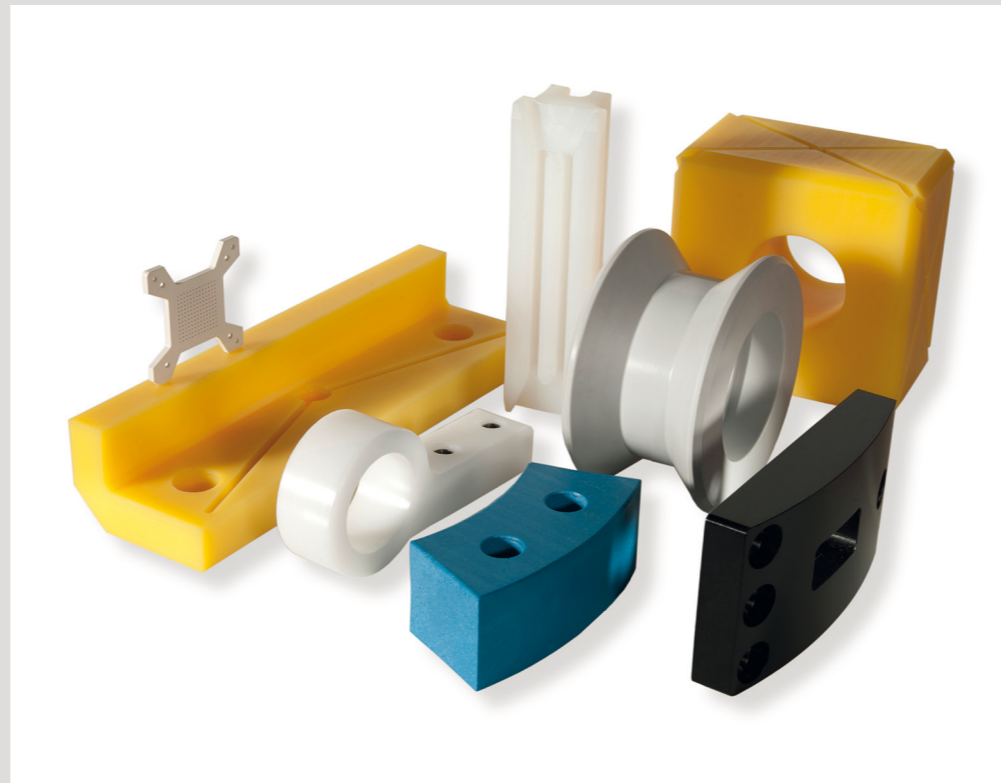


## Engineering Plastics – the Preferred, Ever-Evolving Alternative

Ever since the discovery of the first synthetic materials in the early 20<sup>th</sup> century, the range of applications where plastics offer both performance and economic advantages over more traditional materials (such as wood, metals and glass) continues to grow.

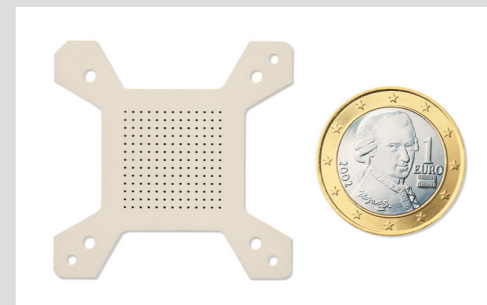
In markets that require materials with good structural and wear properties, engineering plastic stock shapes (rod, sheet, tube) can be machined into both simple and highly complex components. Due to their relative ease of fabrication, these materials can often cost less to make, resulting in a very favorable cost-benefit ratio. The lighter weight, excellent strength-to-weight ratio and performance advantages make these materials the preferred design choices of engineers today.

At the Klepsch Group, strict production controls insure the highest quality of existing materials. We are also making significant investment in research and development to expand our leadership role for engineering plastics materials in the global market we serve.



## Our Machining Capabilities

- CNC lathes, up to Ø 1,560 mm and a length of 2,000 mm
- Conventional screw machines, up to Ø 100 mm spindle bore
- CNC screw machines, up to Ø 100 mm spindle bore
- CNC milling machines, workspace up to 3,000 x 1,000 mm
- 5-axis CNC milling machines
- Gearing machines, up to module 10 / Ø 400 mm
- Table milling machines
- Circular saws, up to 170 mm cutting thickness and 3,100 mm cutting length
- Thickness planers, up to 230 mm thickness and 1,000 mm width
- Caption of finished parts with laser or by engraving



## Mechanical Engineering Division

Zell-Metall's Mechanical Engineering Division produces finished parts for a wide range of industries. State of the art CNC machines give us many production options to convert your initial concepts into tangible reality: quickly, cost-effectively and to your precise needs.

Your requirements and expectations are our quality guidelines for all processes, from initial inquiry to the delivery of our products to you. Our Quality System (QMS) is certified according to EN ISO 9001:2008, and has been since 2000. This process oriented system controls all operations to insure we meet your quality expectations.



## Typical Applications for ZELLAMID® Finished Parts Include:

- Appliance housings
- Bobbins
- Cam discs
- Cutting pads
- Dosing disks
- Entry bends
- Gaskets
- Gears
- Guide pulleys
- Guide rails
- Guide rollers
- Guiding systems
- Plain bearings
- Rope pulleys
- Screw unions
- Slide plates
- Spindle nuts
- Sprockets
- Starwheels
- Timing screws
- Valve housings

## We Machine the Following Materials

- ZELLAMID® 202 PA 6, extruded
- ZELLAMID® 250 PA 6.6, extruded
- ZELLAMID® 600 PE / PE-HMW / PE-UHMW
- ZELLAMID® 800 PP
- ZELLAMID® 900 POM
- ZELLAMID® 1000 PEI
- ZELLAMID® 1100 Cast nylon
- ZELLAMID® 1200 PA 12, extruded
- ZELLAMID® 1400 PET
- ZELLAMID® 1500 PEEK
- ZELLAMID® 1600 PC
- ZELLAMID® 1700 PVDF
- ZELLAMID® 1800 PTFE
- ZELLAMID® 1820 PCTFE
- ZELLAMID® 1900 PPS
- ZELLAMID® 2100 PPSU
- ZELLAMID® PVC-U
- ZELLAMID® PMMA
- ZELLAMID® HPM PSU / PI / PAI / PAEK

We machine all engineering plastics, especially ZELLAMID® stock shapes which we produce at the highest quality standards according to DIN EN 15860.