

Ultramid® (PA) – Versatility in material and application



Application examples

- Metal replacement
- Structural parts
- Housings
- Plugs
- Fluid quick connectors and fittings
- Breakers and switches
- Extruded tubes



Product profile

- High mechanical strength
- Stiffness
- Thermal stability
- Good toughness at low temperatures
- Favorable sliding friction behavior
- Easy processing
- Indispensable in almost all sectors of engineering for a wide range of different components and machine elements
- High-grade electrical insulation material
- Available unreinforced, reinforced
- UV stabilized grades available

Ultraform® (POM) – The copolymer with excellent sliding friction properties



Application examples

- For use in complex and highly durable components
- Rods
- Semi-finished products
- Profile sections
- Gears



Product profile

- High stiffness and strength
- Outstanding resilience
- Favorable sliding friction behavior
- Excellent dimensional stability, even under the effect of mechanical forces, in contact with numerous chemicals, fuels and other media as well as at elevated temperatures
- Fuel and oil resistance
- Unreinforced products with high crystallinity and mechanical strength

Selected Product Literature:

- Elastollan® – Product Brochure
- Elastollan® – Product Range
- Ultradur® – Product Brochure
- Ultradur® – Product Range
- Ultraform® – Product Brochure
- Ultraform® – Product Range
- Ultramid® – Product Brochure
- Ultramid® – Product Range
- Ultramid®, Ultradur® and Ultraform® – Resistance to Chemicals

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. (July 2021)

Further information on Elasturan®, Elastollan®, Ultradur®, Ultraform®, Ultramid® and Ultrasim®

elastollan.com
ultradur.basf.com
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Tough Plastics for Agricultural Applications



BASF
We create chemistry

Elasturan® (PU) – Powerful cast elastomer systems



Application examples

- Heavy-duty castors
- Corner pulleys
- Guide pulleys
- Guide rollers
- Conveyor elements/belts
- Bumpers
- Special coating for conveyor belts
- Hydrolysis- and abrasion-resistant coating of drain channels
- Sieves



Product profile

- High tensile and tear strength
- Excellent elasticity
- Low compression
- Excellent dynamic properties
- Excellent elongation
- High strength values
- Low abrasion
- Resistant to hydrolysis and microbes
- High dynamic and mechanical load resistance
- Good resistance to abrasion



*According to the machinery directive EU 1935/2004 and EU 10/2011 of the European Union. Available for some grades.

Elastollan® (TPU) – Combining elasticity with resistance over a wide range of temperatures



Application examples

- | | |
|--|---|
| <p>Hoses and tubes</p> <ul style="list-style-type: none"> ▪ Agrar tubes ▪ Conveying tubes ▪ Hydraulic and pneumatic tubes | <p>Technical parts</p> <ul style="list-style-type: none"> ▪ Sorting star ▪ Collecting finger ▪ Ear tag ▪ Shoes for hooves |
| <p>Belts and profiles</p> <ul style="list-style-type: none"> ▪ Conveyor belts ▪ Driving belts ▪ Timing belts | |



Product profile

- Good flexibility even at low temperatures
- High wear and abrasion resistance
- Hydrolytic and microbe stability
- Excellent elastic and resilience behaviour
- Good media resistance e.g. against oil and fuel
- High durability
- Good cut resistance

Ultradur® (PBT) – High-quality technical components



Application examples

- Connectors
- Housings
- Breakers and switches
- Load bearing parts



Product profile

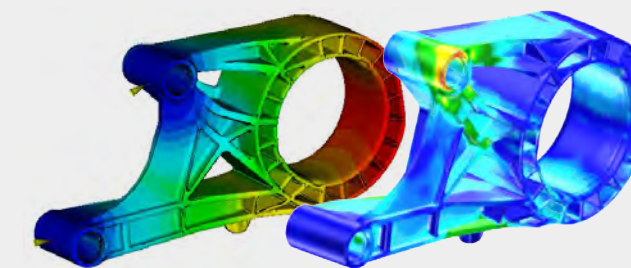
- High rigidity and strength
- Very good dimensional stability
- Low water absorption
- High resistance to many chemicals
- Excellent heat aging behavior
- High barrier against water vapor and oxygen



Ultrasim® – Integrative simulation workflow

Our integrative simulation workflow takes full process information into account:

- Optimized process simulation based on μCT measurements of fiber orientation
- High-speed tensile test to characterize material behavior (mechanical performance, anisotropy, failure etc.)
- Proprietary Ultrasim® mechanical model integrates material and process information



ecovio® M 2351 – Biopolymer for certified soil-biodegradable mulch films

Mulch films made of certified soil-biodegradable ecovio® M 2351 can remain in the soil and be ploughed in after mechanical harvest: Farmers do not have to laboriously remove and recycle them, thus closing the nutrient loop of the food value chain and contributing to a circular economy.

More information: www.ecovio.basf.com

