

## Technical Plastics for the lifting and transporting industry

Low specific weight, excellent abrasion, wear resistance and minimal maintenance expenses - these properties make engineering plastics a cost-effective and therefore interesting alternative to conventional metallic components. Where metallic components in machines quickly show signs of wear, engineering plastics score points. Thanks to the pliable surfaces in comparison to metals, engineering plastics reduce the emergence of wear without sacrificing stability and strength.



Rope Sheave made from Lamigamid®

## Are you interested in engineering plastics as an alternative to steel and gray cast iron?

### Rope Sheaves made from Lamigamid® materials

Lamigamid® Rope Sheaves are used in all types of cranes, electrical and chain hoists, handling and transportation installations, lifting platforms and many other devices.

Benefits:

- Considerably lower weight
- Extended wire rope-life
- Improved vibration dampin
- Reduced energy consumption

### Lamigamid® Wear elements - no stick-slip

The special Lamigamid® materials display their talents as soon as the movement starts.

Benefits:

- Reduces stick-slip issues
- Excellent friction- and wear resistance
- High strength
- Good running
- Lowest moisture
- Longer maintenance intervals



Lamigamid® Wear elements

## Outrigger floats made of Lamigamid®

Even great shocks or impact stresses won't lead to a breakage of the plastic floats. Lamigamid® outrigger floats are used for support pressures from 250 - 1500 kN.

Benefits:

- High load capacity
- Weight reduction compared to steel constructions
- Break, shock and impact resistance
- Favourable price



## Advantages of engineering plastics

Machine parts made of high-quality technical plastics have found their way into mechanical and plant engineering to an increasing extent in recent decades. Under the registered trademarks Lamigamid®, Laminex® and Optamid®, our thermoplastic and thermosetting plastics are known worldwide for the highest quality and offer you interesting advantages:

- Low specific weight
- High notched impact strength even at low temperatures
- Abrasion and wear resistance
- Good lubricating and emergency running properties
- Corrosion resistance
- No or only low moisture absorption
- Good to very good chemical and hydrolysis resistance
- Dimensional stability
- Almost any dimensions and shapes
- Lowest maintenance costs

## Application pioneers in many industries

In recent decades, engineering plastics have been used to an ever-greater extent in machine and plant construction. Whether in general engineering, crane and lifting equipment, elevator construction or currently in the offshore and renewable energy fields, high-performance plastics from Röchling Industrial Xanten are on the rise in almost all branches of machine and plant construction. Making continuous investments, creating innovations and having the courage to break new ground makes us a pioneer in many areas. As the market-leading manufacturer of customized special parts made of engineering plastics, we are your specialist for tailor-made solutions.

## Market leader in the manufacture of large special castings

Our manufacturing process and mechanical finishing enable us to make castings in special forms. We already produced rope pulleys made from PA 6 with an outer diameter of 3500 mm - world record!

## Your requirement is our challenge

You haven't found the component you are looking for? Do not hesitate to contact us. Together we will find the optimal solution for your machines and systems.

**Röchling Industrial.** Empowering Industry.  
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Röchling Industrial Xanten GmbH | Hagdornstraße 3 | 46509 Xanten | Germany  
T +49 2801 76-0 | [info-xan@roechling.com](mailto:info-xan@roechling.com) | [www.roechling.com/industrial/xanten](http://www.roechling.com/industrial/xanten)