

High Performance Polymers

Thermoplastic Rods & Tubes



BIEGLO offers a comprehensive range of high-performance polymer rods and tubes in natural, reinforced and modified grades. A broad selection of compounds with carbon fiber, glass fiber, PTFE, graphite and other functional additives provides tailored properties such as enhanced mechanical strength, wear resistance and dimensional stability for a wide range of industrial applications.

PEI

- Permanent temperature resistance up to 170°C
- Stable electrical properties over wide ranges of temperature and frequency
- Rods: 8mm – 200mm

DEXNYL

GIMIDE™

PEEK

- Permanent temperature resistance up to 240°C
- Outstanding mechanical strength and broad chemical resistance
- Rods OD: 3mm – 400mm
- Tubes OD: 0,3mm – 3000mm

DEXNYL

TPI

- Thermoplastic Polyimide
- Highest heat resistance amongst Thermoplastics (Tg 245°C)
- Excellent elasticity properties at high and low temperatures
- Rods OD: 6mm – 60mm
- Tubes OD: 10mm – 100mm

DEXNYL

AURUM®

PBI

- Temperature resistance >500°C
- Ultra high performance polymer
- Also available as PBI-PAEK thermoplastic alloys
- Rods: 6,35mm – 152,4mm

DEXNYL

Celazole®



High Performance Polymers

Thermosetting Rods & Tubes

- 340°C
PBI
- 300°C
Polyimide
- 270°C
PAI
- 260°C
PEKK
- 250°C
TPI
- 240°C
PEEK
- 170°C
PEI



Thermosetting High Performance Polymers offer improved toughness and temperature resistance as they are not melting before thermal decomposition sets in. The cross-linked polymer chains make the products very hard and less elastic than comparable thermoplastics. Improved wear-resistance is another property worth mentioning. The best know thermosetting HPPs are Polyimides and PAIs. BIEGLO works with a group of producers that are based in Asia, USA and Europe.

▲ Maximum continuous service temperature

PAI

- Permanent temperature resistance up to 270°C
- Excellent abrasion and impact resistance for extended periods
- Rods OD: 3mm – 250mm
- Tubes OD: 25,4mm – 425,5mm



Polyimide

- Permanent temperature resistance above 300°C
- Special grades with a short-term temperature resistance up to 500°C
- Direct Forming, HCM and isostatic shapes and parts
- Rod OD: 6mm – 83mm
- Meldin®, Vespel®



Meldin® 7000

Visit our Webshops:



We also offer Sheets, Films and Finished Parts.

