

# Need Closure with No Secondary Surgery?

## RESOMER® X 206 S – Rapidly absorbing polymer

**RESOMER® X 206 S** – is a semi-crystalline homopolymer of p-dioxanone with an inherent viscosity range of 1.5–2.2 dL/g (measured in HFIP). Once implanted inside the human body, PDO is completely absorbed in 6 to 12 months while retaining mechanical strength for 1 to 2 months. This short degradation

benefits faster healing while keeping the tissue system intact for applications such as surgical clips and wound closure devices. RESOMER® X 206 S is supplied in white to off-white granular form.

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### KEY PROPERTIES:

- Excellent biocompatibility
- Complete degradation in 6–12 months
- Flexibility
- Smooth on contact

### POTENTIAL APPLICATIONS:

- Ligating clips
- Vascular closure devices
- Meshes, scaffolds, dura, adhesion barrier
- Surgical sutures, staples
- Bone fixation pins

### BENEFITS:

- Easy to process (e. g., extrusion and injection molding)
- Mechanical strength retention for 1–2 months
- No secondary surgery
- Improved wound healing



## MECHANICAL PROPERTIES:

Measurement according to DIN EN ISO 527-2:2012,  
test specimens A14 (ISO 20753:2008)

- Tensile strength: 35–45 MPa
- Young's modulus: 600–800 MPa
- Elongation at break: ca. 250 %

## PHYSICAL PROPERTIES:

- Density: 1.38 g/cm<sup>3</sup>
- Melting point: 115 °C
- Glass transition temperature: –16 °C

## ADDITIONAL AVAILABLE RESOMER® GRADES:

- **RESOMER® L** – Poly(L-lactide)
- **RESOMER® LR** – Poly(L-lactide-co-D,L-lactide)
- **RESOMER® LG** – Poly(L-lactide-co-glycolide)
- **RESOMER® LC** – Poly(L-lactide-co-ε-caprolactone)
- **RESOMER® R** – Poly(D,L-lactide)
- **RESOMER® C** – Polycaprolactone
- **RESOMER® LT** – Poly(L-lactide-co-trimethylene carbonate)

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