### resins

**PGA RESIN**
- **Material:** Polyglycolic acid
- **Bioabsorbable material provided in precise, uniform pellets**
- **Color:** Beige (undyed)
- **Tensile strength:** ≥ 245 g (75 denier), ≥ 391 g (120 denier), ≥ 578 g (180 denier)
- **Longer-term, bioabsorbable yarn retaining 50% of tensile strength at 48 weeks. Actual time depends on processes and geometric formation of final device.**
- **Color:** Beige (undyed), violet, and light violet

**PGLA RESIN**
- **Material:** Polyglycolic acid-co-poly-L-lactic acid (PGA/PLA), 89-93 mol% PGA-co-7-11 mol% PLLA
- **Coating:** Polycaprolactone copolyester acid
- **Indications:** Bondek® Plus suture is cleared by the FDA for use in general soft tissue approximation and/or ligation, including use in ophthalmic procedures, but not for use in cardiovascular or neurological procedures.

### multifilament yarns

**PGA YARN**
- **Fast Absorbing, 25+ Year History of Clinical Application.**
- **Material:** Polyglycolic acid (PGA), 100% PGA
- **Soak Time:** ≤ 14 days
- **Tensile strength:** ≤ 205 g (60 denier), ≤ 361 g (120 denier), ≤ 517 g (180 denier)
- **Elongation at Break:** ≤ 15-30%
- **Tenacity Grams/Filament:** ≥ 4.5 g (60 denier), ≥ 8.6 g (120 denier)
- **Densities:** USP 2 through 8-0
- **Indications:** Monodek® suture is cleared by the FDA for use in adult cardiovascular tissue where growth is expected to occur and in ophthalmic surgery.

**PLLA YARN**
- **Slow Absorbing, Consistent Loss of Tensile Strength Over Time.**
- **Material:** Poly-L-lactic acid (PLLA), 100% PLLA
- **Soak Time:** ≤ 14 days
- **Tensile strength:** ≤ 145 g (60 denier), ≤ 252 g (120 denier), ≤ 378 g (180 denier)
- **Elongation at Break:** ≤ 20-30%
- **Tenacity Grams/Filament:** ≥ 4.0 g (60 denier), ≥ 7.1 g (120 denier)
- **Densities:** USP 2 through 8-0
- **Indications:** Bondek® Plus suture is cleared by the FDA for use in general soft tissue approximation and/or ligation, including use in ophthalmic procedures, but not for use in cardiovascular or neurological procedures.

**SPECIFICATIONS FOR MULTIFILAMENT YARNS**

![Image of multifilament yarns](Image)

<table>
<thead>
<tr>
<th>Property</th>
<th>Units</th>
<th>PGA</th>
<th>PGLA</th>
<th>PLLA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td></td>
<td>100</td>
<td>100</td>
<td>80</td>
</tr>
<tr>
<td>Linear Density</td>
<td>Denier</td>
<td>15-144</td>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>Multifilament Number</td>
<td></td>
<td>6-48</td>
<td>28</td>
<td>30</td>
</tr>
<tr>
<td>Deviation/Element</td>
<td></td>
<td>± 2.5-3.0</td>
<td>± 2.5-5.5</td>
<td>± 2.5-5.5</td>
</tr>
<tr>
<td>Tenacity</td>
<td>Denier</td>
<td>≥ 2.5</td>
<td>≥ 2.5</td>
<td>≥ 2.5</td>
</tr>
<tr>
<td>Elongation at Break</td>
<td>%</td>
<td>15-35</td>
<td>10-35</td>
<td>20-35</td>
</tr>
<tr>
<td>IV</td>
<td>g/l</td>
<td>≤ 80</td>
<td>≤ 16</td>
<td>≤ 16</td>
</tr>
<tr>
<td>In Vitro 50% Tensile Strength Loss</td>
<td></td>
<td>≥ 2 Weeks</td>
<td>≥ 2 Weeks</td>
<td>≥ 48 Weeks</td>
</tr>
<tr>
<td>Colors</td>
<td></td>
<td>Beige (undyed), Violet, Light Violet</td>
<td>Beige (undyed), Violet, Light Violet</td>
<td>Beige (undyed), Violet, Light Violet</td>
</tr>
</tbody>
</table>

**Custom deniers are available upon request.**

**Yarns are wound on tubes.** The standard quantity of yarn per tube is 100 g per gram of tube.

**Yarns are coated with a water soluble spin lubricant. The formulation is available to customers on request.**

### sutures

**BONDEK PLUS SUTURE**
- **This suture offers outstanding smoothness, lubricity, and knotability. Its tensile strength during the critical wound healing period, then it breaks down evenly and predictably.**
- **Material:** Polyglycolic acid (PGA)
- **Construction:** Braided
- **Coating:** Polypropylene copolyester acid
- **Indications:** Bondek® Plus suture is cleared by the FDA for use in general soft tissue approximation and/or ligation, including use in ophthalmic procedures, but not for use in cardiovascular or neurological procedures.
- **Size:** USP 2 through 8-0
- **Color:** Violet (colorant: D&C violet #2)
- **Sterilization:** Ethylene oxide (EO)
- **Configurations:**
  - Non-sterile spools
  - Sterile spools
  - Chemical resistant
  - Veterinary cases

**MONODEK SUTURE**
- **Smooth, secure suture with a low risk of wicking.** Monodek® suture retains its initial wound tension strength with 70% at two weeks, 50% at four weeks, and 25% at six weeks.
- **Material:** Polyglycolic acid (PGA)
- **Construction:** Monofilament
- **Coating:** None
- **Indications:** Monodek® suture is cleared by the FDA for use in all types of soft tissue approximation, including use in pediatric cardiovascular tissue where growth is expected to occur and in ophthalmic surgery. The suture is not indicated for adult cardiovascular tissue, microsurgery, and neural tissue.
- **Size:** USP 2 through 8-0
- **Color:** Violet (colorant: D&C violet #2)
- **Sterilization:** Ethylene oxide (EO)
- **Configuration:**
  - Monodek® suture is only available as a sterile finished good. It is not available as a non-sterile product on a spool.
  - Sterile packages

**WE CAN CREATE THE CUSTOMIZED SOLUTION FOR YOUR PROJECT**

When it comes to custom engineered sutures and yarns, Teleflex Medical OEM is a global leader. We have the extensive, in-house capabilities and deep expertise to be the single source solution for your project.

- **Teleflex Medical OEM can take your project from raw material to yarn to component to suture... all accomplished in-house.**
- **Development of new co-polymer compositions based on your absorption rate requirements**
- **Custom blends and compounds to achieve your specifications for antimicrobial ability, lubricity, and radiopacity**
- **Variety of patterns and colors available**
- **Custom PIC counts and deniers**
We Create Customized Solutions Using Bioabsorbable Materials

WE TURN IDEAS INTO PRODUCTS
If the development of bioabsorbable components or sutures is your plan, you should partner with Teleflex Medical OEM. We are one of the world’s few, vertically integrated, suture and yarn producers with the expertise and resources to customize product performance characteristics. Our ability to take your project from resin to yarn to component to suture to device makes us a true single source solution.

In terms of bioabsorbable yarns, Teleflex Medical OEM offers three material options — PGA, PGLA, and PLLA — all with outstanding strength and denier characteristics. In addition, we can also develop new co-polymer compositions based on absorption rate requirements.

Compounding is our specialty. The Teleflex Medical OEM team can make custom blends and compounds with different additives for characteristics such as anti-microbial, increased lubricity, and radiopacity.

PARTNER WITH OUR EXPERT TEAM
Our highly-qualified engineers, material and polymer experts, and skilled technicians make Teleflex Medical OEM stand above the rest. Whatever your project demands, we have a spectrum of world-class talent to draw from. We can polymerize, extrude, and braid in-house, and develop unique compounds.

EVERYTHING FOR YOUR SUCCESS
Vertically integrated capabilities. Deep expertise. Decades of experience. We are ready to take on your project with our extensive, in-house resources ensuring efficiency and confidentiality. Our services include:

- Compounding
- Engineering
- Material selection and formulation
- Design for manufacturability
- Prototyping
- Testing and validation
- Regulatory support
- Manufacturing
- Finishing operations
- Packaging
- Private labeling
- Sterilization

LET’S GET TO WORK ON YOUR PROJECT
Phone: 1.800.474.0178 or 1.508.964.6021
Email: oeminfo@teleflex.com
Web: www.teleflexmedicaloem.com

Work With The Experts™