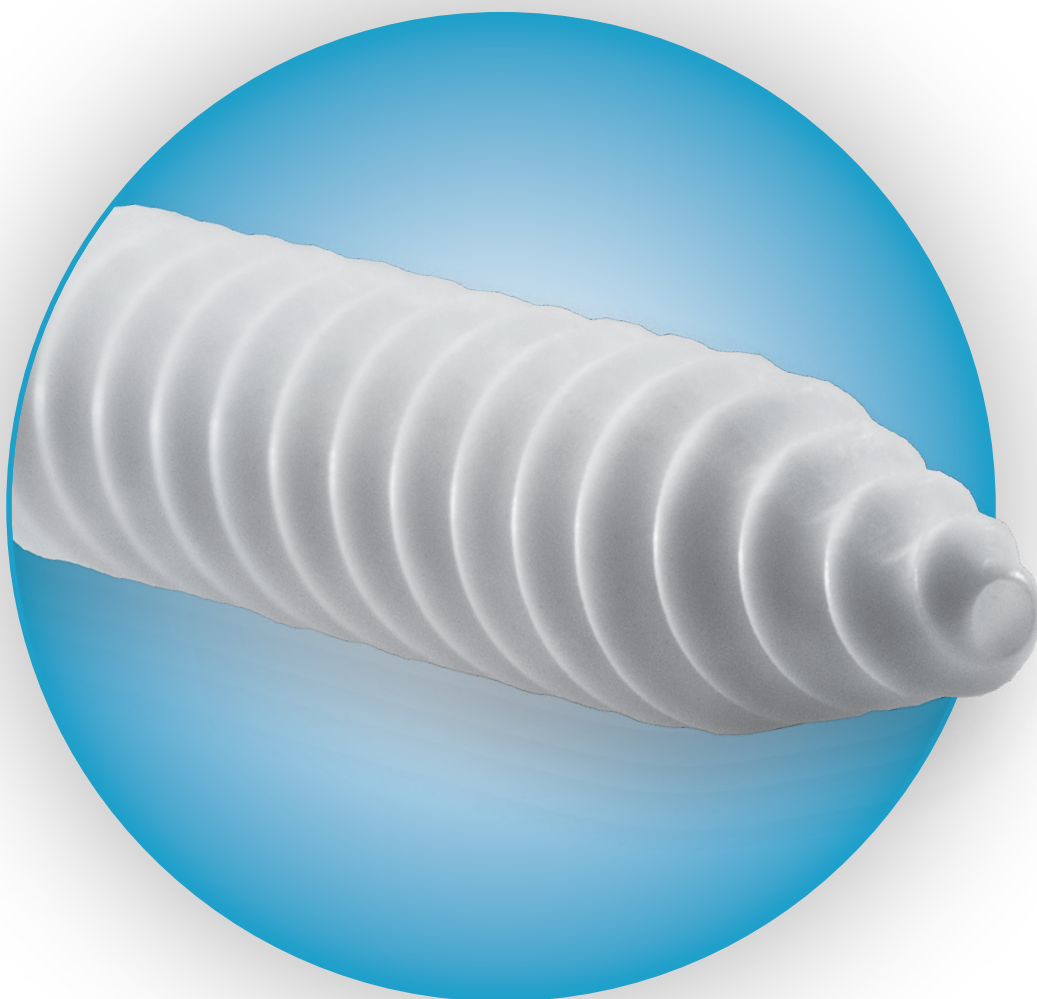


## B-Screw TCP

*Interference Screw*

Product Brochure



## Biocomposite screw

*Designed for reliability, biocompatibility and ease of use*

# B-Screw TCP

**The B-Screw TCP is a biocomposite interference screw specifically designed to meet the needs of surgeons.**

Made of Polyal<sup>®</sup>, a 70% PLA and 30% B-TCP biocomposite material, the B-Screw is designed for:

- Fixation of soft tissue and bone tendon grafts
- Ligament reattachment in a variety of surgical procedures



## High Torque Resistance<sup>1</sup>

Triangular driver geometry transmits torque more effectively compared to standard hex driver geometry

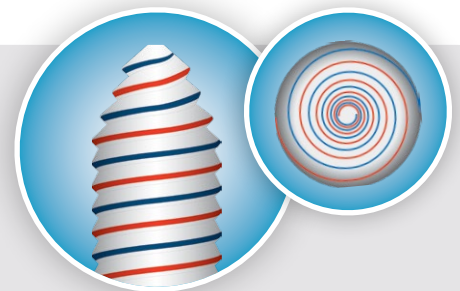
*Reliable insertion, even in hard bone*



## Self-Tapping<sup>2</sup>

A conical tip and unique thread pattern designed to eliminate the need for tap instrumentation

*Quick and easy starting*



## Double-thread Design

Two independent threads reduce the number of turns needed to insert the screw

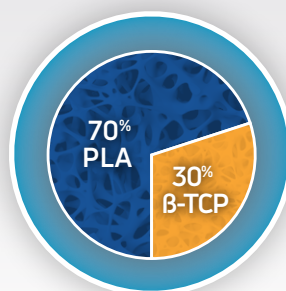
*Faster and more efficient insertion*



## Internal Configuration

The screw and driver design shifts torsional stress off from the screw and onto the driver, improving performance during insertion

*Tactile feedback and reproducibility*



## Polyal<sup>3</sup>

A safe and proven biocomposite material that is mechanically resistant, radiolucent, bioabsorbable and osteoconductive

*Supports the formation of new bone*



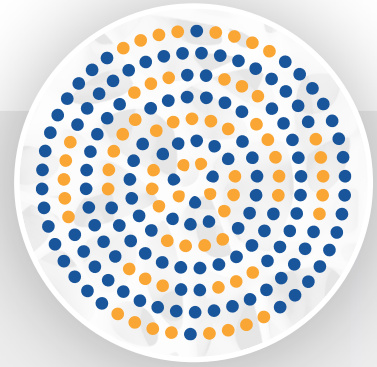
## Full Size Range

Available in 6 diameters and 4 lengths; suitable for multiple procedures

*Versatility*

# Polyal Bioabsorption Profile

- $\beta$ -TCP is an osteoconductive material that promotes bone ingrowth<sup>1</sup>
- Mechanical properties preserved due to the homogeneous distribution of  $\beta$ -TCP particles within the PLA matrix
- Reduced risk of inflammation thanks to  $\beta$ -TCP buffering effect<sup>1</sup>
- Mechanically stable during healing<sup>4</sup>
- Bioabsorption process is tailored to start at the end of natural bone healing
- Complete absorption of the screw is observed within a maximum of 4 years<sup>2</sup>

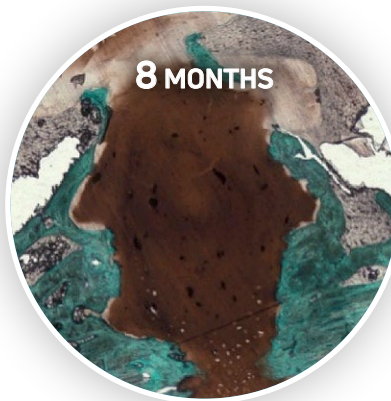


**70%** PLA [poly(70/30; L/DL)lactide]  
**30%**  $\beta$ -TCP [beta tricalcium phosphate]

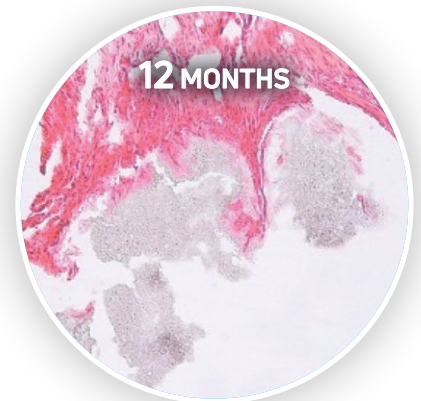
## In vivo implantation<sup>5</sup>



Cohesion of new bone ingrowth around the screw

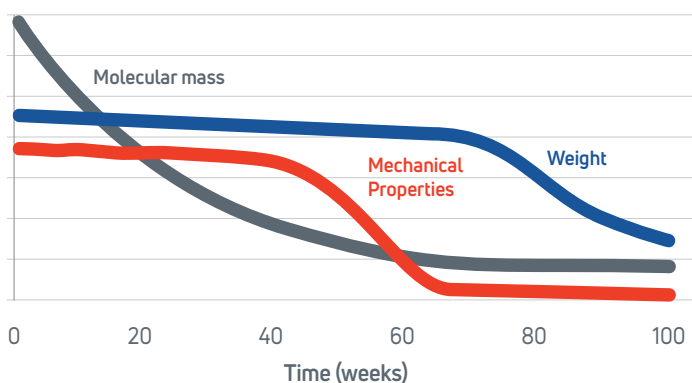


Screw distortion during process of resorption

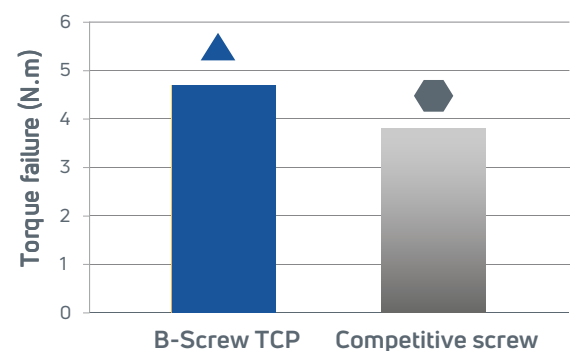


Interdigitation of new bone into screw's fragments

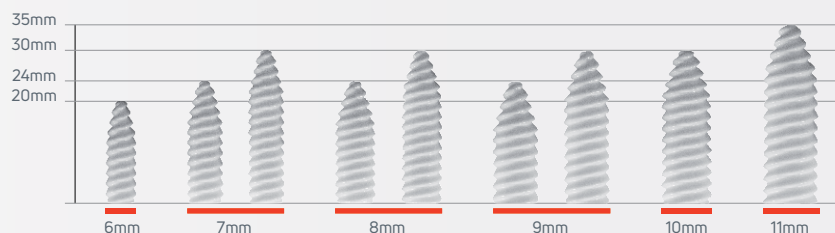
## In vitro degradation<sup>6</sup>



## Torque resistance<sup>1</sup>



# B-Screw TCP



## B-Screw TCP

Part #	Diameter (mm)	Length (mm)	Material
730620NGD	6 mm	20 mm	Biocomposite
730724NGD	7 mm	24 mm	Biocomposite
730730NGD	7 mm	30 mm	Biocomposite
730824NGD	8 mm	24 mm	Biocomposite
730830NGD	8 mm	30 mm	Biocomposite
730924NGD	9 mm	24 mm	Biocomposite
730930NGD	9 mm	30 mm	Biocomposite
731030NGD	10 mm	30 mm	Biocomposite
731135NGD	11 mm	35 mm	Biocomposite

## Instrumentation

Part #	Description	Sterile/ Non-sterile	Single-use/ Reusable
T067231	Standard Driver, with 1.2 mm cannulation	Non-sterile	Reusable
T067228	Ratchet Driver Handle, with 1.2 mm cannulation	Non-sterile	Reusable
T067234	Ratchet Driver Shaft, with 1.2 mm cannulation	Non-sterile	Reusable
10498	Parcus pin pack, includes 10306, 10307, 20155	Sterile	Single-use
20155	1.1 mm x 300 mm Nitinol Guidewire	Non-sterile	Single-use
20098	1.1 mm x 400 mm Nitinol Guidewire	Non-sterile	Single-use

**1** Internal report "132-3-PE", 2013. **2** Internal report "JI19022015", 2015. **3** M. Dziadek et al. "Materials Science and Engineering: C", Vol. 71, pp. 1175-1191, 2017. **4** Internal report "SO161019", 2019. **5** Internal report "Étude n°07-04", 2008. **6** Internal report "In vitro degradation DM PLA/PLA-TCP", 2017.

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