

Features & Benefits

**BioPoly<sup>®</sup> RS**  
Patella System



Advancing Materials. Advancing Outcomes.™

# BioPoly® RS

## Patella System

### Description

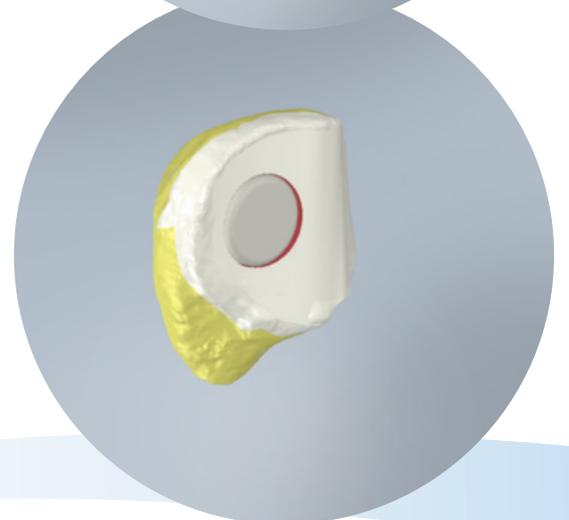
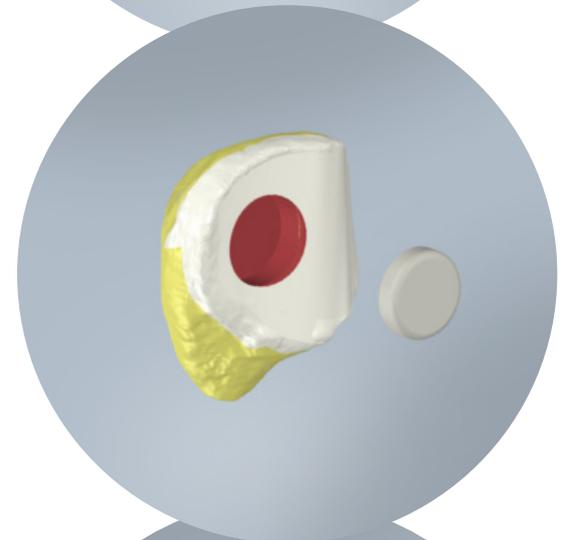
BioPoly® RS is a next generation orthopaedic biomaterial, combining hyaluronic acid (Bio) and ultra high molecular weight polyethylene (Poly). This proprietary material interacts favorably with native tissues and supports anatomical loads.

### Indications

The BioPoly® RS implant is intended for the replacement of symptomatic abnormal or severely abnormal (ICRS grade 2, 3 or 4) chondral or osteochondral lesions located in the medial or lateral facets of the patella.

### Clinical Advantages

1. Restoration of a functional articulating surface to arrest mechanical wear and deterioration of the surrounding joint surfaces
2. Allows for immediate weight bearing resulting in rapid rehabilitation and return to activity
3. Preserves patient anatomy by its tissue sparing design
4. A simple, reproducible minimally invasive procedure
5. Can be implanted in an outpatient or ambulatory surgery center
6. Early mobility with limited rehabilitation
7. Clinical results show greatly improved pain and activity levels along with enhanced quality of life



## Features

## Benefits

Hyaluronic acid and UHMWPE

Unique proprietary combination of common orthopaedic materials

Permanent implant

The combination of UHMWPE and cross-linked hyaluronic acid creates a non-degradable, non-leaching, oxidatively stable implant

Hydrophilic composite material (water attracting)

Attracts synovial fluid to the surface, creating a lubricated bearing surface for optimal articulation with cartilage

Mechanical properties similar to UHMWPE

Allows for immediate weight bearing

Synthetic cartilage replacement

Stiffness is similar to native cartilage (BioPoly  $\approx$  40x stiffer than cartilage vs. Metal  $\approx$  16,000x stiffer)

Biocompatible

The hyaluronic acid creates a surface that favorably interfaces with surrounding tissue

Low wear properties

Bench testing showed less wear than traditional UHMWPE and *in vivo* testing proved no opposing surface wear

Simple, intuitive surgical technique

Reduced operating room time with reproducible results

Four size offerings

Available in 15mm and 20mm diameters and two different thicknesses (size 0 or size 1)



15mm  
SZ0



15mm  
SZ1



20mm  
SZ0



20mm  
SZ1

Technology at work for you



**BioPoly**<sup>®</sup>

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8,254,886, and other patents pending.  
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