BIO Resin

BIO is a biocompatible resin suitable for non-implantable medical applications. BIO can undergo sterilization and has passed numerous ISO 10993 biocompatibility tests for skin irritation and sensitization, toxicity, cytotoxicity, pyrogenicity, and in vitro hemolysis.

**Tensile Properties**
- **TENSILE STRENGTH**: 56.0 MPa ASTM D638
- **ELASTIC MODULUS**: 1614 MPa ASTM D638
- **ELONGATION AT BREAK**: 6.2% ASTM D638

**Flexural Properties**
- **FLEXURAL STRENGTH**: 106.6 MPa ASTM D790
- **FLEXURAL MODULUS**: 3.5 GPa ASTM D790

**Thermal Properties**
- **CTE @ 60°C**: 170.3 µm/m/°C
- **HDT @ 0.45 MPA**: 85.7 °C ASTM D648 - 07

**General Properties**
- **CONTACT ANGLE**: 50-70° ASTM D7334
- **WATER ABSORPTION (24h)**: 0.69% ASTM D570
- **DIALECTIC CONSTANT (10 GHz)**: 2.75 ASTM D785
- **VISCOITY**: 300 cP
- **HARDNESS**: 84 Shore D ASTM D7145
- **STANDARD COLOR**: Yellow trans
- **CELL CULTURE SURVIVAL RATE INVITRO**: 75%
- **COMPATIBLE BMF SYSTEMS**: S130, S140, S230, S240, S350

*Final properties are dependent on print conditions, post-processing operations, and part geometry.

² Test samples were UV cured and heat cured.