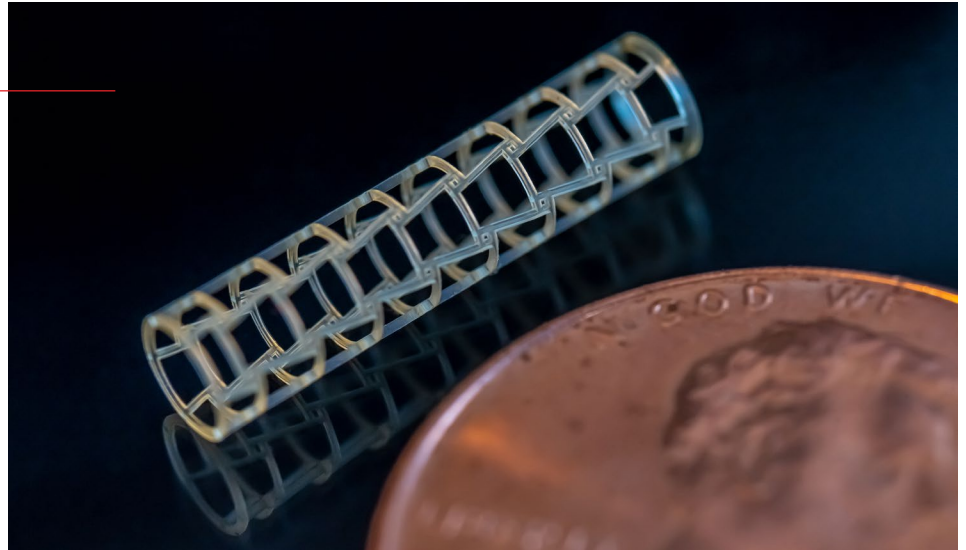


BIO Resin

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.



		Cured Parts	Standard
Tensile Properties	TENSILE STRENGTH	42 MPa	ASTM D638
	ELASTICITY MODULUS	1.8 GPa	ASTM D638
	ELONGATION AT BREAK	2.50%	ASTM D638
Flexural Properties	BENDING STRENGTH	65 MPa	ASTM D790
	FLEXURAL MODULUS	2.3 GPa	ASTM D790
Temperature Properties	DISTORTION TEMPERATURE @0.45MPa	115 °C	ASTM D648 - 07
General Properties	HARDNESS	80 Shore D	ASTM D785
	VISCOSITY	20 cP	-
	STANDARD COLOR	Yellow trans	-
	CELL CULTURE SURVIVAL RATE INVITRO	81.7%	-

ISO Standard	Test Description
ISO 10993-10: 2010; ISO 10993-12: 2012; ISO 10993-2: 2006	Skin Irritation Test
ISO 10993-10: 2010; ISO 10993-12: 2012; ISO 10993-2: 2006	Skin Sensitization Test
ISO 10993-4: 2017	In Vitro Hemolytic Test
ISO 10993-11: 2017; ISO 10993-12: 2012; ISO 10993-2: 2006	Pyrogen Test
ISO 10993-5: 2009; ISO 10993-12: 2012	In Vitro Cytotoxicity Test
ISO 10993-11: 2017; ISO 10993-12: 2012; ISO 10993-2: 2006	Acute Systemic Toxicity Test

¹ Final properties are dependent on print conditions, post-processing operations, and part geometry.

² Test samples were UV cured and heat cured.