

BioClear

Technology: SLA/FRSLA®

COLOR OPTIONS: ☐ Transparent



APPLICATIONS:

Medical device prototypes.

DESCRIPTION:

SLA materials mimic a wide array of engineering plastics, elastomers and composites. Parts created with Somos® BioClear are designed for medical applications that are non-implant and have limited contact with the body such as device prototyping. They are shatter-resistant so they won't break during shipping, accidental dropping, or during a surgical procedure.

FEATURES:

Non-bio compatible; ISO 10993-5, ISO 10993-10; USP Class VI certifications and tracking/tracing of original suppliers.

TECHNICAL DATA

PROPERTY	ASTM	METRIC UNITS
Tensile Strength	D638M	47.1 - 53.6 MPa
Modulus of Elasticity, Youngs Modulus	D638M	2,650 - 2,880 MPa
Elongation Break (%)	D638M	11 - 20 %
Flexural Strength	D790M	63.1 - 74.2 MPa
Flexural Modulus	D790M	2,040 - 2,370 MPa
IZOD Impact Strength (notched)	D256A	0.2 - 0.3 J/m
Heat Deflection Temperature @ 0.45 MPa/66 psi, (°C)	D648	45 - 54 °C