

BioClear

TECHNOLOGY: SLA / FRSLA

APPLICATIONS: Water-Resistant Parts / Non-Implant Medical Applications

DESCRIPTION:

BioClear produces clear, strong, tough and water-resistant parts. This product is the first in the BioLine portfolio for medical applications and is ISO 10993-5, ISO 10993-10 and USP CLASS VI certified.

BioClear is designed for medical applications that are non-implant and have limited contact with the body, such as dental drill guides and device prototyping.**

TECHNICAL DATA

PROPERTY	ASTM	METRIC UNITS
Tensile Strength	D638M	47.1 - 53.6 MPA
Elongation at Break	D638M	11 - 20 %
Elongation at Yield	D638M	3 %
Modulus of Elasticity	D638M	2,650 - 2,880 MPA
Flexural Strength	D790M	63.1 - 74.2 MPA
Flexural Modulus	D790M	2,040 - 2,370 MPA
Izod Impact (Notched)	D256A	0.2 - 0.3 J/M
Index of Refraction	D542	1.512 - 1.515
Hardness (Shore D)	D2240	N/A
Graves Tear	D1004-09	150,288 N/M
Water Absorption	D570-98	0.35%

** The parameters for medical testing are limited. It remains the responsibility of the device manufacturers to determine the usage fit for each particular device.