

WHITE BIORES

MEDICAL/WEARABLE

Photopolymer Resin for B9 Core Med

Material Properties

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Ideal for medical manufacturing, clinical, and consumer tech environments, BioRes – White Medical/Wearable is ISO 10993 biocompatible for prolonged skin contact of up to 30 days.

Durable, impact resistant, and polishable, this material is ideal for rapid prototyping of medical devices to production runs of thousands, surgical tools, anatomical models, medical research, and wearable technology.

	METRIC	IMPERIAL	METHOD
TENSILE PROPERTIES			
Tensile Strength	31 MPa	4.5 ksi	ASTM D638 Type IV
Tensile Modulus	1576 MPa	228.6 ksi	ASTM D638 Type IV
Elongation	8%	8%	ASTM D638 Type IV
FLEXURAL PROPERTIES			
Flexural Strength	50 MPa	7.25 ksi	ISO 178
Flexural Modulus	1270 MPa	184.2 ksi	ISO 178
IMPACT PROPERTIES			
IZOD Impact Strength (notched)	19.9 J/m	.37 ft-lbf/in	ASTM D256
IZOD Impact Strength (unnotched)	223 J/m	4.2 ft-lbf/in	ASTM D4812
TEMPERATURE PROPERTIES			
Heat Deflection Temp @ 1.80 MPa	36 °C	96.8 °F	ISO 75
Heat Deflection Temp @ 0.45 MPa	53 °C	127.4 °F	ISO 75
SHORE "D" HARDNESS			
	85	85	ASTM D2240
VISCOSITY			
	1225 CPS @ 26 °C	1225 CPS @ 79 °F	
SPECIFIC GRAVITY			
	1.116	1.116	
DENSITY			
	1.13 g/mL	9.31 Lbs/Gallon	

*All results were from models cured for 20 minutes at 405 nm