

# BIORES-SILICONE



Ideal for parts that need to withstand flexing, compression, and bending.



Offering a combination of biocompatibility, high precision, surface finish, and tear resistance, our medical-grade silicone is ISO 10993 approved for prolonged skin contact of up to 30 days.

Even through repeated cycles, Resilient-Silicone resin will spring back quickly its original shape.

## KEY FEATURES

- Elastomeric
- Tear resistant
- Quick return
- Durometer of 65-70 Shore A



## BIORES-SILICONE B9R-BIO-SIL

	METRIC	IMPERIAL	METHOD
<b>TENSILE PROPERTIES</b>			
Tensile Strength	3.3 MPa	.48 ksi	ASTM D412
Tensile Modulus	1.6 MPa	.23 ksi	ASTM D638-14
Tear Strength	11.4 kN/m	8408.21 lbf/ft	ASTM D624-C
Elongation at Break	205%	205%	ASTM D638-14
<b>TEMPERATURE PROPERTIES</b>			
Glass Transition (Tg)	-58 °C	-72.4 °F	DSC
<b>SHORE "A" HARDNESS</b>			
	65-70	65-70	ASTM D2240
<b>COMPRESSION SET</b>			
72 hrs @ 23 °C	2.3%	2.3%	ASTM D395-B
72 hrs @ 70 °C	1.1%	1.1%	ASTM D395-B
<b>REBOUND RESILIENCE</b>			
16" Drop Height	13%	13%	ASTM D2632
<b>VISCOSITY</b>			
	3150 CPS @ 25 °C	3150 CPS @ 77 °F	
<b>SPECIFIC GRAVITY</b>			
	1.03	1.03	ASTM D792