

Hyperion Silicone

Mechanical Properties (1)	Green	Post-Cured (2) (3)	Method
Ultimate Tensile Strength	-	5 MPa	ASTM D412-06
Elongation at Break	-	230 %	
Tear Strength	-	12 kN/m	ASTM D624-00
Stress at 50% elongation	-	0,4 MPa	ASTM D412-06
Stress at 100% elongation	-	1 MPa	
Stress at 150% elongation	-	2,1 MPa	
Compression Set 23°C for 22 hours	-	20 %	ASTM D395-03
Bayshore Resilience	-	34 %	ASTM D2632

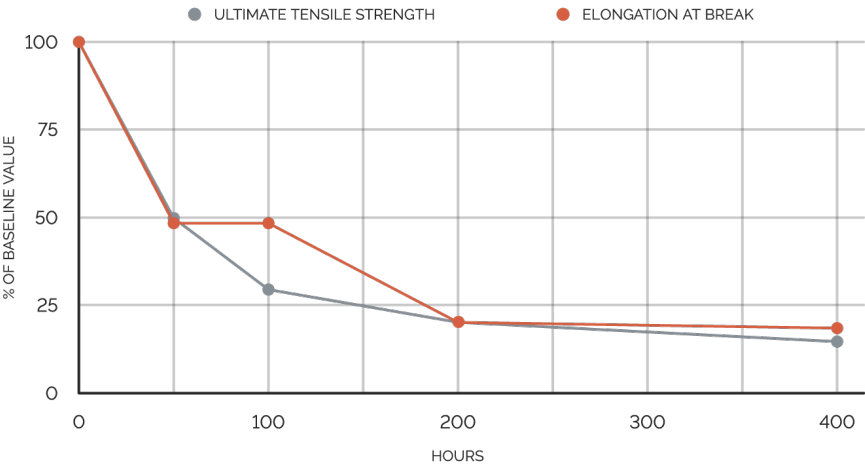
Thermal Properties (1)	Green (2)	Post-Cured (3)	Method
Glass Transition Temperature	-	-107°C	ASTM D4065

General Properties			
Shore Hardness	-	40A	ASTM 2240
Color	-	Dark Grey	-
Viscosity (@ 35°C)	-	7800 cP	-

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Hyperion Silicone has been evaluated as a skin contacting device in accordance with ISO 10993-1, and passed the requirements for the following biocompatibility endpoints:

ISO Standard	Description (4)
ISO 10993-5:2009	Non-Cytotoxic
ISO 10993-23:2021	Non-Irritant
ISO 10993-10:2021	Non-Sensitizer



Notes:

- 1) Material properties can vary with part geometry, print orientation, print settings, and temperature.
- 2) Material properties may vary based on part geometry, print orientation, print settings, temperature, and disinfection or sterilization methods used..
- 3) Data for post-cured samples were measured on Type C tensile bars printed on a SLA printer with 100 μ m Hyperion Silicone settings, washed for 20 minutes and post-cured at 60°C for 30 minutes submerged in water.
- 4) Hyperion Silicone was tested at MAMSA World Headquarters, OH, USA.