



Evolve 128

Process: Stereolithography

EvoLve 128 is a durable high strength stereolithography material that produces accurate, high-detailed parts. Ideal applications include parts for functional testing applications, jigs and fixtures, and Snap fit designs.

MECHANICAL PROPERTIES	TEST METHOD	METRIC	IMPERIAL
Tensile Modulus	D638M	2,964 MPa	430 ksi
Tensile Strength at Yield	D638M	56.8 MPa	8.2 ksi
Elongation at Break	D638M	11%	11%
Flexural Modulus	D2240	2,654 MPa	385 ksi
Izod Impact-Notched	D256A	38.9 J/m	0.729 ft-lb/in
Hardness	D2240	82D	82D
Water Absorption	D570-98	0.40%	0.40%
THERMAL & ELECTRICAL PROPERTIES	TEST METHOD	METRIC	IMPERIAL
C.T.E. -40 - 0°C (-40 - 32°F)	E831-05	56.5 $\mu\text{m}/\text{m}^\circ\text{C}$	31.4 $\mu\text{in}/\text{in}^\circ\text{F}$
C.T.E. 0 - 50°C (32 - 122°F)	E831-05	76.5 $\mu\text{m}/\text{m}^\circ\text{C}$	42.5 $\mu\text{in}/\text{in}^\circ\text{F}$
C.T.E. 50 - 100°C (122 - 212°F)	E831-05	163 $\mu\text{m}/\text{m}^\circ\text{C}$	90.8 $\mu\text{in}/\text{in}^\circ\text{F}$
C.T.E. 100 - 150°C (212 - 302°F)	E831-05	174 $\mu\text{m}/\text{m}^\circ\text{C}$	96.5 $\mu\text{in}/\text{in}^\circ\text{F}$
Dielectric Constant 60Hz	D150-98	3.9	3.9
Dielectric Constant 1KHz	D150-98	3.7	3.7
Dielectric Constant 1MHz	D150-98	3.5	3.5
Dielectric Strength	D149-97a	31 kV/mm	788 V/mil
HDT @ 0.46 MPa	D648	52.3°C	126°F
HDT @ 1.81 MPa	D648	49.6°C	121°F

Note: The information on the material properties was obtained from DSM Somos, a unincorporated subsidiary of DSM Desotech Inc. Somos and Oxetane Advantage are registered trademarks of DSM Somos. SICAM Corporation expressly disclaims any product warranties and cannot guarantee the accuracy of the information presented.