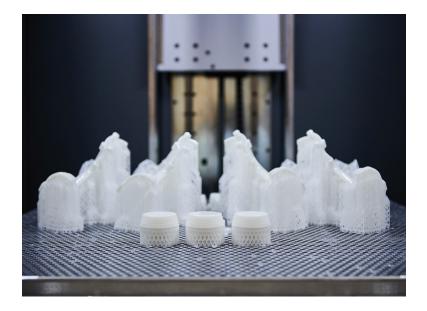


# Somos<sup>®</sup> EvoLVe<sup>™</sup> 128

Stereolithography

## A resin offering durability and fast processing times.

Somos<sup>®</sup> EvoLVe 128 is a durable stereolithography material that procudes accurate, high-detailed parts and has been designed for easy finishing. It has a look and feel that is almost indistinguishable from finished traditional thermoplastics, making it excellent for building parts and prototypes for functional testing applications – resulting in time, money and material savings during product development. Somos<sup>®</sup> EvoLVe is an excellent material for industries such as aerospace, automotive, medical, consumer products and electronics.



#### **Key Benefits**

- Easy to clean & finish
- High strength & durability
- Accurate & dimensionally stable
- High detail

#### **Ideal Applications**

- Tough, functional prototypes
- Snap-fit designs
- Jigs & fixtures

LIQUID PROPERTIES		OPTICAL PROPERTIES			
Appearance	Off-White	E <sub>c</sub>	9.3 mJ/cm <sup>2</sup>	[critical exposure]	
Viscosity	~380 cps @ 30°C	D <sub>P</sub>	4.3 mils	[slope of cure-depth vs. In (E) curve]	
Density	~1.12 g/cm <sup>3</sup> @ 25°C	E <sub>10</sub>	95.1 mJ/cm <sup>2</sup>	[exposure that gives 0.254 mm (.010 inch) thickness]	

## **QOENGINEER strata**sys

MECHANICAL PROPERTIES		UV POSTCURE	UV POSTCURE		
ASTM	Property Description	Metric	Imperial		
D638M	Tensile Modulus	2,964 MPa	430 ksi		
D638M	Tensile Strength at Yield	56.8 MPa	8.2 ksi		
D638M	Elongation at Break	1	11%		
D2240	Flexural Modulus	2,654 MPa	385 ksi		
D256A	Izod Impact (notched)	38.9 J/m	0.729 ft-lb/in		
D2240	Hardness (Shore D)		82		
D570-98	Water Absorption	0.	0.4%		

THERMAL/ELECTRIC	CAL PROPERTIES	UV POSTCURE		
ASTM	Property Description	Metric	Imperial	
E831-05	C.T.E. 40°C – 0°C (-40°F – 32°F)	<b>56.5</b> μm/m°C	31.4 µin/in°F	
E831-05	C.T.E. 0°C – 50°C (32°F – 122°F)	<b>76.5</b> μm/m°C	42.5 µin/in°F	
E831-05	C.T.E. 50°C – 100°C (122°F – 212°F)	<b>16</b> 3 μm/m°C	90.8 µin/in°F	
E831-05	C.T.E. 100°C – 150°C (212°F – 302°F)	174 µm/m°C	96.5 µin/in°F	
D150-98	Dielectric Constant 60 Hz	4	.3	
D150-98	Dialectric Constant 1KHz	3.7		
D150-98	Dielectric Constant 1MHz	3	.5	
D149-97a	Dielectric Strength	31 kV/mm	788 V/mil	
D648	HDT @ 0.46 MPa (66 psi)	52.3°C	126°F	
D648	HDT @ 1.81 MPa (264 psi)	49.6°C	121°F	

These values may vary and depend on individual machine processing and post-curing practices.

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