

Technical Data Sheet

NeXt Material

For the SLA process



Features, benefits and applications

- Best material for snap fits
- Very high moisture resistance
- Used widely in the product design industry
- White colour makes visualising parts easy

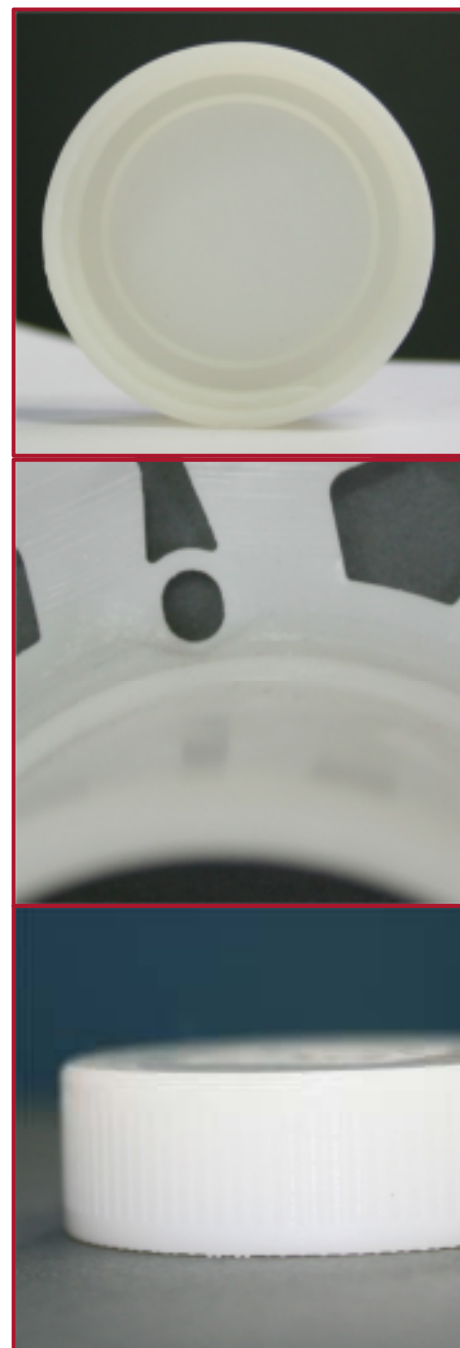
Machines

- Available on Viper SI² machines

Liquid Properties	
Appearance	White
Viscosity	~1,000 cps @ 30°C
Density	~1.17 g/cm ³ @ 25°C

Optical Properties		
Ec	12.0 mJ/cm ²	[critical exposure]
Dp	5.8 mils	[slope of cure-depth vs. ln (E) curve]
E10	67 mJ/cm ²	[exposure that gives 0.254mm (0.010 inch) thickness]

Mechanical Properties		NeXt UV Postcure	
ASTM Method	Property Description	Metric	Imperial
D638M	Tensile Modulus	2,430 MPa	352 ksi
D638M	Tensile Strength at Yield	42.2 MPa	6.1 ksi
D638M	Tensile Strength at Break	32.8 MPa	4.8 ksi
D638M	Elongation at Break	9%	
D638M	Elongation at Yield	3%	
D638M	Poisson's Ratio	0.43	
D790M	Flexural Strength	69.3 MPa	10.1 ksi
D2240	Flexural Modulus	2,470 MPa	358 ksi
D256A	Izod Impact (Notched)	50 J/cm	0.94 ft-lb/in
D2240	Hardness (Shore D)	82	
D570-98	Water Absorption	0.40%	



Got a question? Need more technical data?

Call us: +44(0) 1786 464 434

Email us: sales@camodels.co.uk

www.camodels.co.uk

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Thermal/Electrical Properties		NeXt UV Postcure	
ASTM Method	Property Description	Metric	Imperial
E831-05	C.T.E. -40 - 0°C (-40 - 32°F)	73 $\mu\text{m}/\text{m}^\circ\text{C}$	40.6 $\mu\text{in}/\text{in}^\circ\text{F}$
E831-05	C.T.E. 0 - 50°C (32 - 122°F)	111 $\mu\text{m}/\text{m}^\circ\text{C}$	61.7 $\mu\text{in}/\text{in}^\circ\text{F}$
E831-05	C.T.E. 50 - 100°C (122 - 212°F)	172 $\mu\text{m}/\text{m}^\circ\text{C}$	95.6 $\mu\text{in}/\text{in}^\circ\text{F}$
E831-05	C.T.E. 100 - 150°C (212 - 302°F)	173 $\mu\text{m}/\text{m}^\circ\text{C}$	96.2 $\mu\text{in}/\text{in}^\circ\text{F}$
D150-98	Dielectric Constant 60Hz	4.7	
D150-98	Dielectric Constant 1 KHz	4.0	
D150-98	Dielectric Constant 1 MHz	3.6	
D149-97a	Dielectric Strength	15.2 kV/mm	386 V/mil
D648	HDT @ 0.46MPa (66 psi)	56°C	133°F
D648	HDT @ 1.81 MPa (264 psi)	50°C	122°F

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