

Technical Data Sheet

PerFORM Material

For the SLA process



Features, benefits and applications

- Exceptional detail resolution
- Fast build and post-process?
- Excellent high heat tolerance

Machines

- Available on IPro machines

Liquid Properties	
Appearance	Off-White
Viscosity	~1,000 cps @ 30°C
Density	~1.61 g/cm ³ @ 25°C

Optical Properties		
Ec	7.8 mJ/cm ²	[critical exposure]
Dp	4.3 mils	[slope of cure-depth vs. ln (E) curve]
E10	80 mJ/cm ²	[exposure that gives 0.254mm (0.010 inch) thickness]

Mechanical Properties		UV Postcure		Thermal Postcure	
ASTM Method	Property Description	Metric	Imperial	Metric	Imperial
D638M	Tensile Strength	68 MPa	9.9 ksi	80 MPa	11.6 ksi
D638M	Tensile Modulus	10,500 MPa	1,520 ksi	9,800 MPa	1,420 ksi
D638M	Elongation at Break	1.1%		1.2%	
D638M	Poisson's Ratio	0.32		0.33	
D790M	Flexural Strength	120 MPa	17.4 ksi	146 MPa	21.2 ksi
D790M	Flexural Modulus	10,000 MPa	1,450 ksi	9,030 MPa	1,310 ksi
D256A	Izod Impact (Notched)	17 J/m	0.32 ft-lb/in	20 J/m	0.37 ft-lb/in
D2240	Hardness (Shore D)	94		93	
D570-98	Water Absorption	0.2%		0.1%	



Got a question? Need more technical data?

Call us: +44(0) 1786 464 434

Email us: sales@camodels.co.uk

www.camodels.co.uk

Please be advised that all information provided in this document is representative of typical properties and as advised by the material manufacturer. The performance characteristics of these products may vary according to product application, operating conditions, or with end use. CA Models Ltd makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use. Specifications subject to change without notice.

Technical Data Sheet

PerFORM Material

For the SLA process



Thermal/Electrical Properties		UV Postcure		Thermal Postcure	
ASTM Method	Property Description	Metric	Imperial	Metric	Imperial
E831-05	C.T.E. -40 - 0°C (-40 - 32°F)	29.9 µm/m°C	16.6 µin/in°F	26.4 µm/m°C	14.7 µin/in°F
E831-05	C.T.E. 0 - 50°C (32 - 122°F)	49.4 µm/m°C	27.4 µin/in°F	34.3 µm/m°C	19.1 µin/in°F
E831-05	C.T.E. 50 - 100°C (122 - 212°F)	79.1 µm/m°C	43.9 µin/in°F	59.9 µm/m°C	33.3 µin/in°F
E831-05	C.T.E. 100 - 150°C (212 - 302°F)	80.9 µm/m°C	45.0 µin/in°F	94.7 µm/m°C	52.6 µin/in°F
D150-98	Dielectric Constant 60Hz	4.0		4.0	
D150-98	Dielectric Constant 1 KHz	3.8		3.9	
D150-98	Dielectric Constant 1 MHz	3.6		3.7	
D149-97a	Dielectric Strength	26.3 kV/mm	668 V/mil	25.4 kV/mm	644 V/mil
E1545-11	Tg	72°C	162°F	81°C	178°F
D648	HDT @ 0.46MPa (66 psi)	132°C	270°F	268°C	514°F
D648	HDT @ 1.81 MPa (264 psi)	82°C	180°F	119°C	246°F

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

Got a question? Need more technical data?
Call us: +44(0) 1786 464 434
Email us: sales@camodels.co.uk
www.camodels.co.uk

Please be advised that all information provided in this document is representative of typical properties and as advised by the material manufacturer. The performance characteristics of these products may vary according to product application, operating conditions, or with end use. CA Models Ltd makes no warranties of any type, express or implied, including, but not limited to, the warranties of merchantability or fitness for a particular use. Specifications subject to change without notice.