stratasys

MATERIAL DATA SHEET
SLA

Somos® WaterShed® White

Stereolithography

A universal stereolithography material designed to produce accurate, detailed parts across a wide range of applications.

Somos® WaterShed White is a stereolithography resin that mimics plastics such as ABS and PBT. With its opaque white appearance and smooth surface finish it lends itself to markets such as, medical, automotive, aerospace and consumer goods.

Parts built with **Somos® WaterShed White** are durable and moisture resistant, making it ideal for functional prototyping and concept models.

Key Benefits

- Easy to process and finish
- Good moisture resistance
- High durability

Ideal Applications

- Functional prototypes
- Concept models
- Medical device models

	Liquid Properties	Optical Properties		
Appearance	Opaque White	E_c	13.0 mJ/cm²	Critical exposure
Viscosity	~340 cps @ 30 °C	D_p	6.25 mils	Slope of cure-depth vs. In (E) curve
Density	~1.16 g/cm³ @ 25 °C	E_{10}	64 mJ/cm²	Exposure that gives 0.254 mm (0.010 inch) thickness

	Mechanical Properties	UV Postcure	
ASTM Method	Property Description	Metric	Imperial
D638M	Tensile Modulus	2,658 ± 49 (MPa)	385 ± 7 (ksi)
D638M	Ultimate Tensile Strength	54 ± 0.52 (MPa)	7.7 ± 0.07 (ksi)
D638M	Elongation at Break	6.6 ± 0.8%	
D790M	Poisson's Ratio	0.41	
D2240	Flexural Modulus	2,137 ± 129 (MPa)	309 ± 18 (ksi)
D2240	Flexural Strength	67 ± 0.5 (MPa)	9.7 ± 0.05 (ksi)
D256A	Izod Impact (Notched)	26 (3) J/m	0.49 (0.05) ft-lb/in
D2240	Hardness (Shore D)	79	
D570-98	Water Absorption (24 hours)	0.31 ± 0.02%	

	Thermal/Electrical Properties	UV Postcure	
ASTM Method	Property Description	Metric	Imperial
E831-05	C.T.E. -40 – 0 °C (-40 – 32 °F)	63 µm/m °C	37 µin/in °F
E831-05	C.T.E. 0 – 50 °C (32 – 122 °F)	89 µm/m °C	52 µin/in °F
E831-05	C.T.E. 50 – 100 °C (122 – 212 °F)	170 µm/m °C	87 µin/in °F
E831-05	C.T.E. 100 – 150 °C (212 – 302 °F)	172 µm/m °C	100 µin/in °F
D150-98	Dielectric Constant 60 Hz	3.8	
D150-98	Dielectric Constant 1 KHz	3.7	
D150-98	Dielectric Constant 1 MHz	3.4	
D149-97A	Dielectric Strength	17.9 kV/mm	454 V/mil
D648	HDT @ 0.46 MPa (66 psi)	59 °C	138 °F
D648	HDT @ 1.81 MPa (264 psi)	54 °C	129 °F

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

All samples were printed using standardized, Neo®800+ parameters, User Guide cleaning procedures and conditioned for at least 7 days at 25C°/50% RH before testing.

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ISO 9001:2015
Certified

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