



Somos 11122

Process: Stereolithography

Somos 11122 is a tough low viscosity stereolithography material that produces water-resistant, clear, ABS like parts. Ideal applications include wind tunnel testing, fluid flow analysis, and clear bottles.

MECHANICAL PROPERTIES	TEST METHOD	METRIC	IMPERIAL
Tensile Strength	D638M	47.1 - 53.6 MPa	6831 - 7774 psi
Elongation at Break	D638M	11 - 20 %	11 - 20 %
Elongation at Yield	D638M	3.3 - 3.5 %	3.3 - 3.5 %
Modulus of Elasticity	D638M	2,650 - 2,880 MPa	384 - 418 kpsi
Flexural Strength	D790M	63.1 - 74.2 MPa	9,152 - 10,756 psi
Flexural Modulus	D790M	2,040 - 2,370 MPa	296 - 344 kpsi
Izod Impact-Notched	D256A	0.2 - 0.3 J/cm	0.4 - 0.6 ft lb/in
Index of Refraction	D542	1.512 - 1.515	1.513 - 1.515
Graves Tear	D1004	150,288 N/m	833 - 858 lbf/in
Water Absorption	D570-98	0.35%	0.35%
THERMAL & ELECTRICAL PROPERTIES	TEST METHOD	METRIC	IMPERIAL
C. T. E. 10°F – 32°F	E831-00	66 - 67 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	37 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$
C. T. E. 32°F – 60°F	E831-00	90 - 96 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	50 - 53 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$
C. T. E. 60°F – 88°F	E831-00	170 - 189 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	94 - 105 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$
C. T. E. 88°F – 115°F	E831-00	185 - 189 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	103 - 105 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$
Dielectric Constant 60Hz	D150-98	3.9 - 4.1	3.9 - 4.1
Dielectric Constant 1KHz	D150-98	3.7 - 3.9	3.7 - 3.9
Dielectric Constant 1MHz	D150-98	3.4 - 3.5	3.4 - 3.5
Dielectric Strength	D149-97a	15.4 - 16.3 kV/mm	390 - 413 V/mil
Tg	E1545-00	39 - 46 °C	102 - 109 °F
HDT @ 0.46 MPa	D648-98c	45.9 - 54.5 °C	115 - 130 °F
HDT @ 1.81 MPa	D648-98c	49.0 - 49.7 °C	120 °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.