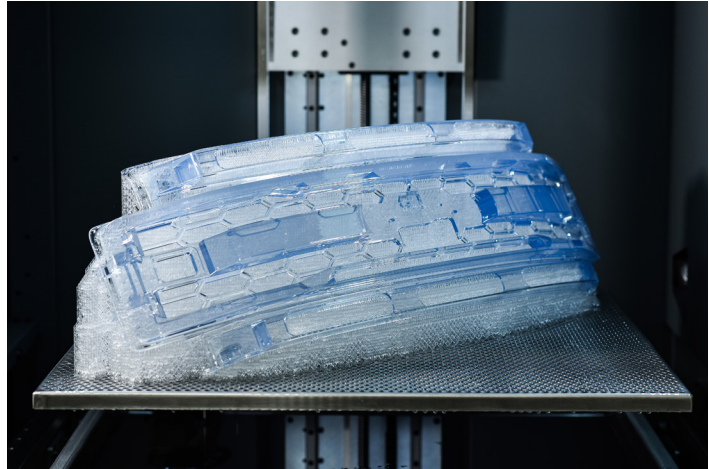


Somos® WaterShed® XC 11122

Stereolithography

As one of the industry's most popular materials, Somos® WaterShed XC 11122 is the clear solution for numerous applications. Whether you're a designer looking for highly detailed parts with superior clarity and water resistance, or an engineer focusing on durability for functional testing, Somos® WaterShed XC 11122 mimics the look and feel of clear thermoplastics, such as ABS and PBT.

Somos® WaterShed XC 11122 produces optically clear parts with a smooth finish and its ease of use helps to shorten product development and testing. This versatility means Somos® WaterShed XC 11122 is the ideal material in markets such as automotive, aerospace and consumer electronics for applications including packaging, RTV patterns, durable concept models, wind tunnel testing and investment casting patterns.



Key Benefits

- Easy to use and finish
- Superior moisture resistance
- Exceptional clarity

Ideal Applications

- Consumer products
- Fluid/air flow analysis
- Duct work
- Investment casting
- Lenses

| LIQUID PROPERTIES | | OPTICAL PROPERTIES | | |
|-------------------|---------------------------------|--------------------|-------------------------|------------------------------------------------------|
| Appearance | Optically clear, near colorless | E_c | 11.5 mJ/cm ² | [critical exposure] |
| Viscosity | ~260 cps @ 30°C | D_p | 6.5 mil | [slope of cue-depth vs ln (E) curve] |
| Density | ~1.12 g/cm ³ @ 25°C | E_{10} | 54 mJ/cm ² | [exposure that gives 0.254 mm (.010 inch) thickness] |
| | | D542 | 1.514 | Index of Refraction (cured) |

| MECHANICAL PROPERTIES | | UV POSTCURE | |
|-----------------------|---------------------------|-------------|---------------|
| ASTM Method | Property Description | Metric | Imperial |
| D638M | Tensile Strength at Break | 50.4 MPa | 7.3 ksi |
| D638M | Elongation at Break | | 15.5% |
| D638M | Elongation at Yield | | 3% |
| D638M | Tensile Modulus | 2,770 MPa | 402 ksi |
| D790M | Flexural Strength | 68.7 MPa | 10 ksi |
| D2240 | Flexural Modulus | 2,205 MPa | 320 ksi |
| D256A | Izod Impact (Notched) | 25 J/m | 0.47 ft-lb/in |
| D570-98 | Water Absorption | | 0.35% |

| THERMAL/ELECTRICAL PROPERTIES | | UV POSTCURE | |
|-------------------------------|----------------------------------|--------------------------------------------|----------------------------------------------|
| ASTM Method | Property Description | Metric | Imperial |
| E831-05 | C.T.E. -40 – 0°C (-40 – 32°F) | 67 $\mu\text{m}/\text{m}^{\circ}\text{C}$ | 37 $\mu\text{in}/\text{in}^{\circ}\text{F}$ |
| E831-05 | C.T.E. 0 – 50°C (32 – 122°F) | 93 $\mu\text{m}/\text{m}^{\circ}\text{C}$ | 52 $\mu\text{in}/\text{in}^{\circ}\text{F}$ |
| E831-05 | C.T.E. 50 – 100°C (122 – 212°F) | 180 $\mu\text{m}/\text{m}^{\circ}\text{C}$ | 100 $\mu\text{in}/\text{in}^{\circ}\text{F}$ |
| E831-05 | C.T.E. 100 – 150°C (212 – 302°F) | 187 $\mu\text{m}/\text{m}^{\circ}\text{C}$ | 104 $\mu\text{in}/\text{in}^{\circ}\text{F}$ |
| D150-98 | Dielectric Constant 60 Hz | | 4 |
| D150-98 | Dielectric Constant 1 KHz | | 3.8 |
| D150-98 | Dielectric Constant 1 MHz | | 3.5 |
| D149-97a | Dielectric Strength | 15.9 kV/mm | 404 V/mil |
| E1545-00 | T _g | 43°C | 109°F |
| D648 | HDT @ 0.46 MPa (66 psi) | 50°C | 122°F |
| D648 | HDT @ 1.81 MPa (264 psi) | 49°C | 120°F |

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

Stratasys Headquarters

7665 Commerce Way,
Eden Prairie, MN 55344
+1 800 801 6491 (US Toll Free)
+1 952 937-3000 (Intl)
+1 952 937-0070 (Fax)

stratasys.com

ISO 9001:2015 Certified

1 Holtzman St., Science Park,
PO Box 2496
Rehovot 76124, Israel
+972 74 745 4000
+972 74 745 5000 (Fax)

