



# MATERIAL PROTOTHERM

**OVERVIEW** 



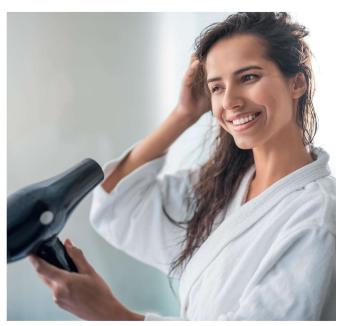
## Somos® ProtoTherm™ 12120

Stereolithography

A fast-building stereolithography material specifically designed to deliver high temperature resistance with exceptional surface finishing.

**Somos® ProtoTherm 12120** stereolithography material is the excellent solution for applications requiring resistance to heat and humidity.

Somos® ProtoTherm 12120 excels at producing highly detailed, extremely accurate parts. The material is dimensionally stable when exposed to heat and humidity making it a good candidate for high temperature fluid flow analysis, functional prototypes, and limited run, non-critical end-use parts such as wiring harnesses and support connectors in electronic devices.



### **Key Benefits**

- Extremely precise accuracy for small details
- Resistant to heat up to 250°F (121°C)
- Stable in high humidity environments

### **Ideal Applications**

- High-temperature fluid flow analysis
- Functional prototypes requiring heat and humidity resistance
- High-detail parts
- Low volume connectors and harnesses for electronics

LIQUID PROPERTIES		OPTICAL PROPERTIES		
Appearance	Red	E <sub>c</sub>	11.8 mJ/cm <sup>2</sup>	[critical exposure]
Viscosity	~550 cps @ 30°C	D <sub>P</sub>	6 mils	[slope of cure-depth vs. In (E) curve]
Density	~1.15 g/cm³ @ 25°C	E <sub>10</sub>	63 mJ/cm <sup>2</sup>	exposure that gives 0.254 mm (.010 inch) thickness]



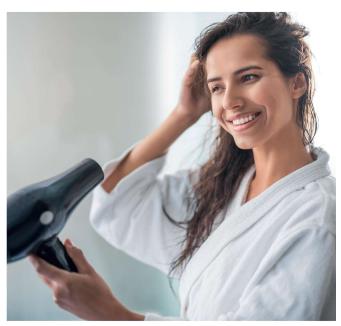
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