The Design to Manufacturing Co.

MATERIAL

PROTOTHERM

OVERVIEW

For more information or advice: theD2Mco.com/contact-us info@theD2Mco.com

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_C	11.8 mJ/cm²	[critical exposure]
Viscosity	~550 cps @ 30°C	D_P	6 mils	[slope of cure-depth vs. ln (E) curve]
Density	~1.15 g/cm³ @ 25°C	E_{10}	63 mJ/cm²	exposure that gives 0.254 mm (.010 inch) thickness]

Data Sheet

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