



# Therm 1-SLA

## Description

Therm 1 is a red transparent low-viscosity liquid stereolithography resin. Parts made with Therm 1 have excellent high-temperature resistance and can be used at temperatures up to 150°C without load.



## Features

Features: Excellent high-temperature resistance, outstanding dimensional stability, high resolution and fine detail, high strength and durability

Applications: Ideal for manufacturing models with high resolution and high strength, suitable for industries requiring high temperature resistance such as paint baking, electroplating, and rapid molding.



## Datasheet >

### Parameters

Optical Properties		
Ec	6.5 mJ/cm <sup>2</sup>	[Clinical Irradiation]
Dp	0.11 mm	[Penetration Depth]
E10	68.8 mJ/cm <sup>2</sup>	[Irradiation to generate a thickness of 0.254 mm (0.010 inch)]

Fluid Properties	
Appearance	Transparent red liquid
Viscosity	~268 cps @ 30°C
Density	~1.10g/cm <sup>3</sup> @25°C

Thermodynamic Properties		
Measurement Method	Description	(UV + Thermal) Curing
D648	HDT@ 0.455 MPa	101.9°C
D648	HDT@1.82 MPa	85.5°C

Mechanical Properties		
Measurement Method	Description	Typical Value
D638	Tensile Strength	42.7 MPa
D638	Tensile Modulus	3235 MPa
D638	Elongation at Break	1.5 %
D790	Flexural Strength	96.6 MPa
D790	Flexural Modulus	3165 MPa
D2240	Hardness - Shore D	83D