



## product description

Therm 1 is a red, transparent, low-viscosity, liquid stereolithography resin that produces molded parts with excellent

High temperature resistance, the use temperature of the molded part is 150 without load, especially suitable for making high-resolution, strong and tough models, suitable for

industries that have high temperature resistance requirements such as baking paint, electroplating, and rapid mold.

## main advantage

- Excellent high temperature performance
- Excellent dimensional stability
- High resolution and fine performance
- High strength & sturdiness



fluid properties	
Exterior	transparent red liquid
Viscosity	~268cps @ 30oC
density	~1.10 g/cm3 @ 25oC

Optical properties	
Ec	6.5 mJ/cm2 [critical exposure]
Dp	0.11 mm [transmission depth]
E <sub>10</sub>	68.8 mJ/cm2 [Irradiance yields 0.254 mm (0.01 inch) thickness]

Mechanical behavior		
Measurement methods	Performance description	Typical value
D638	Tensile Strength	42.7MPa
D638	Tensile modulus	3235MPa
D638	Elongation at break	1.5%
D790	Bending strength	96.6MPa
D790	Flexural modulus	3165MPa
D2240	Shore hardness	83D

Thermodynamic properties		
Measurement methods	Performance description	(UV+thermal) curing
D648	HDT @0.455MPa HDT @	101.9oC _
D648	1.82MPa	85.5oC _

Operating temperature	
Molding temperature	150 (no load)

These typical values may vary according to different processing or post-processing procedures.