

Therm 1 150°C High-temperature Resistant

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.

Parameters

Optical Properties		
Ec	6.5 mJ/cm ²	[Clinical Irradiation]
Dp	0.11 mm	[Penetration Depth]
E10	68.8 mJ/cm ²	[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 ³ @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