



CPS HT511 High Temperature Material

Technical Data Sheet

General Information

CPS HT511 is a fully formulated resin that is tuned to print on Desktop SLA 3D printers to create a polymer with high strength and HDT. This resin reliably produces prints with low shrinkage and excellent resolution.

Product Data

		Method
Viscosity (cps @ 25 °C)	640	Brookfield SP #31
Bulk Properties		
Tensile Modulus (mPa)	1040	ASTM D 638-14
Tensile Strength (mPa)	45	ASTM D 638-14
Elongation (%)	5.6	ASTM D 638-14
Shore Hardness	86 D	
Heat Deflection Temperature (°C)	0.45 mPa: 97 °C 1.8 mPa: 70 °C	ISO 75-1, 75-2

Print Conditions

Prints on Form2 in open mode, Grey v.4.

Post Cure Procedure

Post curing is not necessary, but may improve surface quality. For best results post cure uniformly under broadband light at 30 mW/cm² for 10 minutes, then anneal >10 °C above working temperature for 1 hr.

Storage and Handling

HT511 stable for up to 1 year at ambient conditions.

This product is light sensitive and should not be exposed to daylight, UV light and artificial lighting during storage.

Exposure to daylight, UV light and artificial lighting should be kept to a minimum during handling.