CPS HT511-LCD
High Temperature Material

Technical Data Sheet

General Information

CPS HT511-LCD is a fully formulated resin that is tuned to print on LCD 3D printers to create a polymer with high strength and HDT.

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 1.8 mPa: 70	ISO 75-1, 75-2

**Parts were post-cured with a Broadband UV light source at 10 mW/cm^2 for 10 minutes each side.*
**Properties may vary with orientation and post-treatment.*

Print Settings

CPS HT511-LCD is recommended 60s for first layers, and 5-9 seconds for the model layers, depending on the printer.

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/cm^2 for 10 minutes and then anneal >10 °C above working temperature for 1 hr.

Storage and Handling

CPS HT511-LCD 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.