

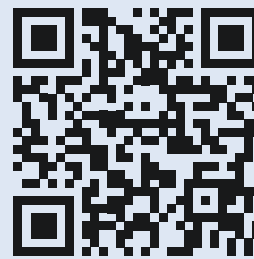


HIGH TEMP

High-Temperature Resistant Resin

High Temp Resin provides a heat deflection temperature (HDT) of 238 °C at 0.45 MPa. It is ideal for printing precise, detailed prototypes and parts with high heat resistance.

SLA 3D PRINTING



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Main Features

- ✓ High heat resistance up to 238 °C
- ✓ Excellent dimensional stability
- ✓ Smooth, detailed surface finish
- ✓ Good compatibility with numerous solvents
- ✓ Well-suited for industrial environments

Applications

- ✓ Hot air and gas flow applications
- ✓ Heat-resistant molds and inserts
- ✓ High-temperature housings and components

Based on currently available data, the information in this document is considered accurate. Fasipol makes no explicit or implicit warranties regarding the results obtained from its use or the accuracy of such results.

Certified Company
UNI EN ISO
9001:2023



	METRIC			IMPERIAL			METHOD
	As-printed	After post-curing	After post-curing + additional thermal curing	As-printed	After post-curing	After post-curing + additional thermal curing	
Elastic Properties							
Tensile Strength	21 MPa	58 MPa	49 MPa	3031 psi	8456 psi	7063 psi	ASTM D638-14
Tensile Modulus	0,75 GPa	2,8 GPa	2,8 GPa	109 ksi	399 ksi	406 ksi	ASTM D638-14
Elongation at Break	14%	3,3%	2,3%	14%	3,3%	2,3%	ASTM D638-14
Flexural Properties							
Flexural Strength	24 MPa	95 MPa	97 MPa	3495 psi	13706 psi	14097 psi	ASTM D 790-15
Flexural Modulus	0,7 GPa	2,6 GPa	2,8 GPa	100 ksi	400 ksi	406 ksi	ASTM D 790-15
Impact Properties							
Izod Impact Strength	33 J/m	18 J/m	17 J/m	0,61 ft-lbf/in	0,34 ft-lbf/in	0,32 ft-lbf/in	ASTM D256-10
Thermal Properties							
Heat Distortion Temperature at 1,8 MPa	44 °C	78 °C	101 °C	111 °F	172 °F	214 °F	ASTM D 648-16
Heat Distortion Temperature at 0,45 MPa	49 °C	120 °C	238 °C	120 °F	248 °F	460 °F	ASTM D 648-16
Thermal Expansion	118 µm/m/°C	80 µm/m/°C	75 µm/m/°C	41 µin/in/°F	44 µin/in/°F	41 µin/in/°F	ASTM E 831-13

Solvent Resistance Characteristics

160 °C for 180 minutes

Percentage weight gain in 24 hours for a 1x1x1 cm printed specimen, post-cured and then immersed in the respective solvents:

Solvent	Dimensional change (%) in 24 hours	Weight gain (%) in 24 hours	Solvent	Dimensional change (%) in 24 hours	Weight gain (%) in 24 hours
Acetic acid 5%	< 1	< 1	Mineral oil (light)	< 1	< 1
Acetone	< 1	2	Mineral oil (heavy)	< 1	< 1
Bleach, NaOCl approx. 5%	< 1	< 1	Salt water (NaCl 3.5%)	< 1	< 1
Isobutyl acetate	< 1	< 1	Skydrol 5	< 1	1,1
Diesel fuel	< 1	< 1	Sodium hydroxide solution (0.025%, pH 10)	< 1	< 1
Diethylene glycol monomethyl ether	< 1	1	Strong acid (conc. hydrochloric acid)	1,2	< 1
Hydraulic oil	< 1	< 1	Ditripropylene glycol monomethyl ether	< 1	< 1
Hydrogen peroxide (3%)	< 1	< 1	Acqua	< 1	< 1
Isooctane (aka gasoline)	< 1	< 1	Xylene	< 1	< 1
Isopropyl alcohol	< 1	< 1			