



BLACK RESIN

Standard Resin for General-Purpose Use

General-Purpose Resin, perfectly balanced for high-quality prototypes and models. It ensures high precision, rigidity, with a smooth, matte finish, comparable to injection molding.

SLA 3D PRINTING



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Main Features

- ✓ High precision and matte finish
- ✓ High rigidity and mechanical strength
- ✓ Excellent surface quality
- ✓ Fast and reliable processing

Applications

- ✓ Form and fit prototypes
- ✓ Housings and enclosures
- ✓ Jigs and fixtures
- ✓ High-detail display models

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



	As-printed	Post-curing 5 min (room temp.)	Post-curing 15 min at 60 °C	Method
Elastic Properties				
Tensile Strength at Break	48 MPa	57 MPa	61 MPa	ASTM D638-14
Tensile Modulus	2200 MPa	2450 MPa	2700 MPa	ASTM D638-14
Elongation at Break	19%	14%	10%	ASTM D638-14
Flexural Properties				
Flexural Strength	82 MPa	91 MPa	103 MPa	ASTM D790-15
Modulus of Flexural Elasticity	2000 MPa	2450 MPa	2750 MPa	ASTM D790-15
Impact Properties				
Notched Izod Impact Strength	31 J/m	29 J/m	29 J/m	ASTM D4812-11
Thermal Properties				
Heat Deflection Temperature (HDT) at 1.8 MPa	54 °C	54 °C	57 °C	ASTM D648-16
Heat Deflection Temperature (HDT) at 0.45 MPa	61 °C	61 °C	69 °C	ASTM D648-16

Solvent Resistance Characteristics

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

Solvent	Weight increase (%) in 24 hours	Solvent	Weight increase (%) in 24 hours
Acetic acid 5%	0,9	Mineral oil (heavy)	0,2
Acetone	4,9	Mineral oil (light)	0,2
Bleach (NaOCl ~5%)	0,7	Salt water (NaCl 3.5%)	0,8
Isobutyl acetate	0,3	Skydrol 5	0,5
Diesel fuel	0,1	Sodium hydroxide solution (0.025%, pH 10)	0,8
Diethylene glycol monomethyl ether	1,0	Strong acid (conc. HCl)	0,5
Hydraulic oil	0,2	Tripropylene glycol monomethyl ether	0,3
Hydrogen peroxide (3%)	0,9	Water	0,8
Isooctane (gasoline)	< 0,1	Xylene	< 0,1
Isopropyl alcohol	0,3		