SIRAYA Tech

Fast - ABS Like Resin

Mecha White

Fast Mecha White offers rapid printing and curing, striking a perfect stiffness and toughness balance.

It provides a non-scratch, slick matte surface with low friction that prevents wear in moving joints. This excellent resin features a superb solid white color, outstanding resolution, low odor, and super simple cleaning.

Ideal for:

- Joints
- Gears
- Model Making

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Property Data

Mechanical Properties	Measure	Method
Tensile Stress at Yield	32	ASTM D638
Tensile Stress at Break	30	ASTM D638
Young's Modulus	1050	ASTM D638
Elongation at Break	23	ASTM D638
Flexural Modulus	1300	ASTM D790

Other Properties	Measure	Method
HDT at 0.455 MPa	70	ASTM D648
IZOD Impact (Notched) J	29	ASTM D256
Shore Hardness	70	ASTM D2240
Solid Density	1.25	ASTM 792
Water Absorption (24hr)	0.75%	ASTM D570

Liquid Properties	Measure	Method
Viscosity at 25°C (77°F)	140	ASTM D7867
Liquid Density	1.15	ASTM D1475

Work Flow

Printing

Material Name	Fast ABS-Like Resin (Mecha White)
Primary Printer Compatibility	MSLA / LCD/ DLP 3D Printers
Secondary Printer Compatibility	385nm - 405nm 3D Printers
Hardware Requirement	Access to exposure control is required
Supported Slicer Software	Chitubox, Lychee Slicer, Anycubic Photon Workshop, Blueprint Studio, Elegoo Satellite
Slicer Profiles Download	Siraya Tech Print Settings Download
Temperature required	25℃ or above

Clean

Cleaning Step / Category	Instructions & Recommendations
Cleaning Solvents	• Preferred: 95% concentrated Ethanol or IPA. • Alternative: Methanol (must not contain acetone).
Cleaning Time	Submerge parts in the solvents for 4-5 minutes, using the ultrasonic cleaner.
Submersion Limit	Do not submerge parts in alcohol for more than 5 minutes.
Extra Step	For complex model, use a painter brush (or any brush made with hair) to gently remove excess resin from the printed part.

Work Flow

Drying

Drying	Remove alcohol by using an oven for 7-8 minutes (using a hair dryer requires 10 minutes)
	Note: For complex parts with cavities, repeat the clean/dry cycle multiple times.
Quality Check	Touch the dried surface. If it is still sticky, wash and dry the part again until smooth.

Post Curing

Step / Factor	Instructions & Recommendations
Pre-curing Checklist	Ensure the part is completely clean of excess resin and fully dry (no alcohol left) before starting.
UV Specifications	Use a UV light source with a wavelength of 395-405nm.
Curing Time	Cure for approximately 15 minutes to achieve optimal strength.
Efficiency Tip	Submerge the printed object in water during the UV curing process to significantly increase curing efficiency.