

Technical Data Sheet

Siraya Tech Magna Durable Resin

Color: Grey



Product Introduction

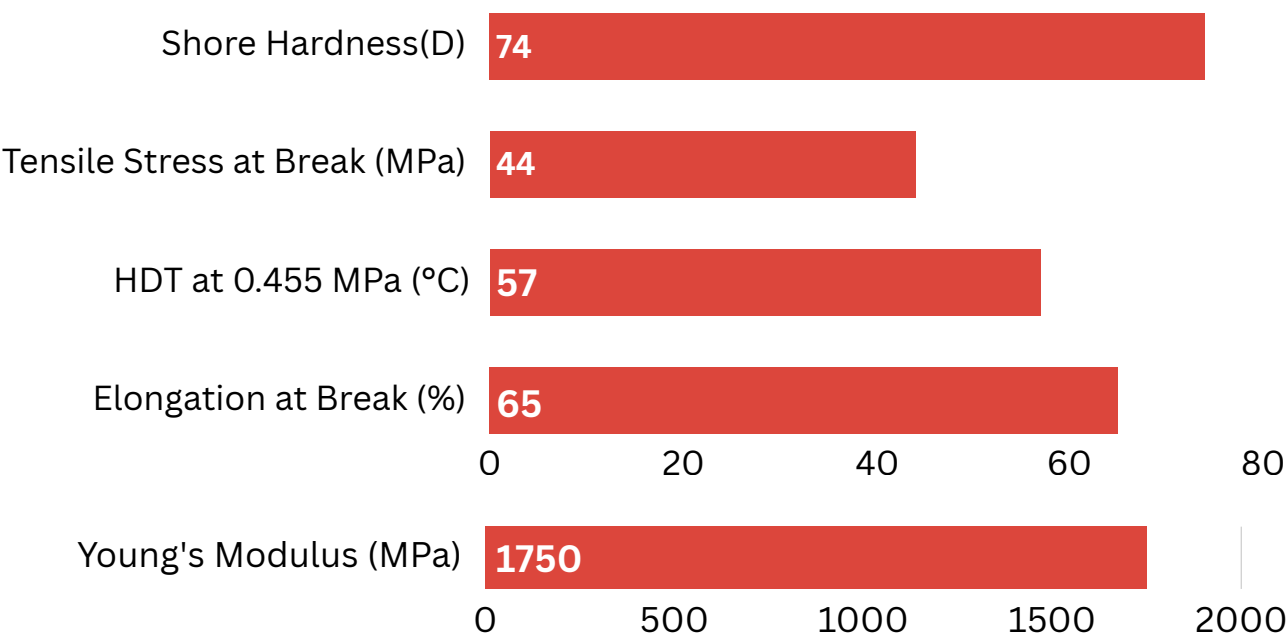
Magna Durable Grey Resin

Key Features

- **Toughness with Detail** – Balances mechanical strength and fine resolution for functional and aesthetic parts.
- **Impact & Wear Resistance** – Resists cracking, deformation, and mechanical stress.
- **Excellent Print Reliability** – Strong layer adhesion and low failure rate, compatible with both desktop and large-format LCD/MSLA printers.
- **Professional Gray Surface** – Neutral gray improves visibility of details and eases post-processing.
- **Cost-Effective Performance** – Offers industrial-grade results at a hobby-friendly price point.

Application:

- Functional mechanical parts
- Robust engineering prototypes
- Miniatures and models with fine details
- Tools, jigs, and fixtures for daily use
- Batch production for small businesses or workshops



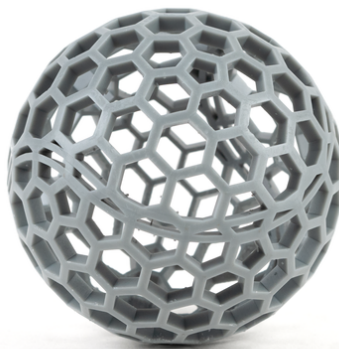
Property Data

Mechanical Properties	Measure	Method
Tensile Stress at Yield	42	ASTM D638
Tensile Stress at Break	44	ASTM D638
Young's Modulus	1750	ASTM D638
Elongation at Break	65	ASTM D638
Flexural Modulus	1550	ASTM D790
IZOD Impact (Notched) J	65	ASTM D256
Shore Hardness (D)	74	ASTM D2240
HDT at 0.455 MPa	57	ASTM D648

Other Properties	Measure	Method
Liquid Viscosity at 25°C (77°F)	1550	ASTM D7867
Liquid Density g/mL	1.1	ASTM D1475
Solid Density g/cm ³	1.15	ASTM 792
Water Absorption (24hr)	0.5%	ASTM D570

Property Data

Product Specifications	Detail
Name	Magna Durable
Color	Grey
SKU	ST0051
Net weight (KG)	1
Gross weight (KG)	1.1
Capacity (ml)	909
Package Dimensions	22*10*10 cm



Work Flow

Before Printing

Steps	Key Point
1	Resin Mixing: Shake the bottle up and down well for at least 1 minute before each use. Warm the resin at 40-60 °C water for 10-15 minutes before shaking and pouring will be better.
2	Please keep the print temperature at 25-30 °C.
3	Support Tip: Magna Durable Grey is flexible before fully cured, so use thick and dense supports. Starting with “Heavy” support settings in Chitubox or Lychee. Light supports may cause print failure or warping.

Printing Profile

Printer	Download Link
Anycubic	<u>Setting Profile</u>
Creality	
Elegoo	
Phrozen	
More...	

Work Flow

Profile Import Steps

Slicer	Link
Chitubox V1	View Now
Chitubox V2	View Now
Lychee	View Now

Clean and Dry

Steps	Key Point
Draining	After printing, let the part drain thoroughly over the vat for at least 10 minutes.
Preparation	Prepare 90% or higher concentrated Ethanol or IPA (Isopropyl Alcohol)
Ultrasonic cleaning	An ultrasonic cleaner for 5-10 minutes is effective.
Manual cleaning	If manually cleaning, use two washes: the first to remove most resin with a brush, the second with cleaner alcohol to finish.
Drying	Use compressed air or a hairdryer on a cool setting to completely dry the part, paying attention to crevices and hollow areas.
Check Surface	Before post-curing, touch the surface (with gloves). If it feels sticky or tacky, the part is not clean or dry enough. Repeat cleaning and drying.

Work Flow

Post-Curing

Steps	Key Point
Prerequisite	Ensure the part is completely clean and dry before post-curing.
UV Source	Use a 395-405nm UV light source for curing
Curing Time	Cure for approximately 10-15 minutes, rotating the part every 5 minutes to ensure even exposure on all surfaces.
Optional Underwater Curing	Submerging prints in a transparent water container can potentially lead to faster and more uniform curing.

Storage

1	Store Magna Durable resin in its original opaque bottle.
2	Place in a cool, dark, dry place, away from direct sunlight and heat sources.
3	Recommended storage temperature is typically 15-25°C.
4	Keep the bottle tightly sealed when not in use.
5	Ensure the resin is used within its recommended shelf life for optimal performance.