Technical Data Sheet

SIMPLE V2
WATER WASHABLE RESIN

Grey & Aqua Gray

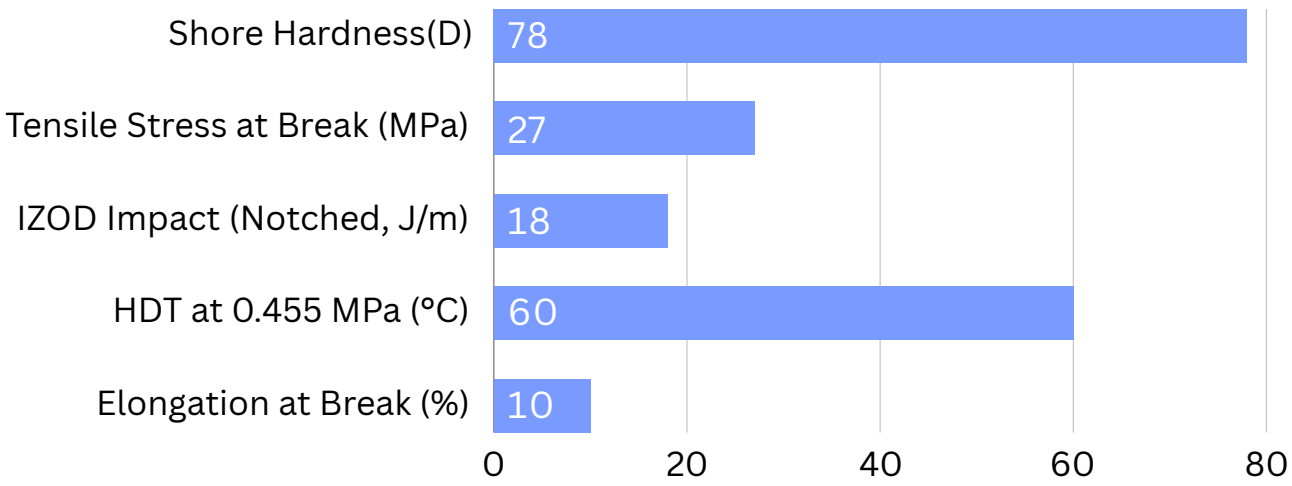
PRODUCT INTRODUCTION

Features of Simple V2 water-washable resin

- **Easy Clean & Low Odor:** The latest low-viscosity washable formula ensures low odor and simple cleaning.
- **Optimized performance, efficient printing:** Upgraded formula ensures durability and high-quality details, resistant to long-term water soaking.
- **High Precision and Excellent Details:** Achieves low volumetric shrinkage, resulting in smooth surfaces and high resolution.
- **Highly Compatible & Versatile:** Highly compatible with our platinum silicone and with MSLA, LCD, and DLP 3D printers.

Applications

- **Model making:** Excellent details to produce high-quality models.
- **Applicable to Large printers:** Low pull force makes it easy to handle even large printers.
- **educational purposes:** Saves cleaning costs and has low odor, suitable for educational projects.
- **High-speed printing:** Low viscosity allows for fast printing.



Property Data

Mechanical Properties	Measure	Method	Post Processed
Tensile Stress at Yield	29	ASTM D638	-
Tensile Stress at Break	27	ASTM D638	-
Young's Modulus	750	ASTM D638	-
Elongation at Break	10	ASTM D638	-
Flexural Modulus	950	ASTM D790	-
Flexural Stress at Yield	-	-	-
Flexural Strain at Break	-	-	-

Other Properties	Measure	Method	Post Processed
HDT at 0.455 MPa	60	0.455 MPa	-
IZOD Impact (Notched) J	18	-	-
Shore Hardness (D)	78	-	-
Solid Density	1.2	-	-
Water Absorption (24hr)	2%	-	-
Biocompatibility	-	-	-

Liquid Properties	Measure	Method	Post Processed
Viscosity at 25°C (77°F)	170	25°C (77°F)	-
Liquid Density	1.1	-	-

Work Flow

Printing

Simple - water washable resin is an affordable, easy-to-print, and clean general application resin. It is specially designed for MSLA/LCD printers yet and is ideal for large format printers and new resin printer users.

To achieve optimal results with Simple Resin, you need to use the appropriate slicer profiles for your printer model and software. You can download the slicer profiles for Chitubox and Lychee slicers from this link: https://siraya.tech/pages/print-settings-download

Clean

- Use a painter brush (or any brush made with hair) to remove excess resins on the printed part.
- Use 15% alcohol or IPA to clean (15% is preferred. Simple resin can also wash with water). Some form of methanol should work but make sure it does not contain acetone.
- Simple Resin is easily dissolved by water, so do not submerge the parts in alcohol or water for more than 20s. Clean it several times for a total of 2-3 minutes.
- After cleaning, remove alcohol as soon as possible with a hair dryer or air blower. For complex parts with lots of cavities, it may be a good idea to clean/dry multiple times.
- You can check by touching the dried surface of the part to see if it is still sticky. If the dried surface is still sticky, wash some more and dry again.

Tips

- Make sure Simple Resin's model dries completely before post-curing, or the residual water may lead to cracks.
- Quickly drying print is essential for Simple - water washable resin. Do not leave it in the sun to dry. Use a hairdryer.
- How to get 15% alcohol: 1 part 90% alcohol + 5 part water.

Post Curing

Here are some tips for post-curing your printed parts:

- Make sure the resin is completely cleaned off and there is no alcohol left (it needs to be dry) on the print before curing. Failure to dry before curing may lead to cracks.
- Simple reached its optimal strength when the printed part was post-cured with UV after cleaning. Use 395-405nm UV light and cure for about 1-2 minutes.