Siraya Tech

Technical Data Sheet

Siraya Tech Sculpt High-Temperature Resin

Ultra White

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Product Introduction

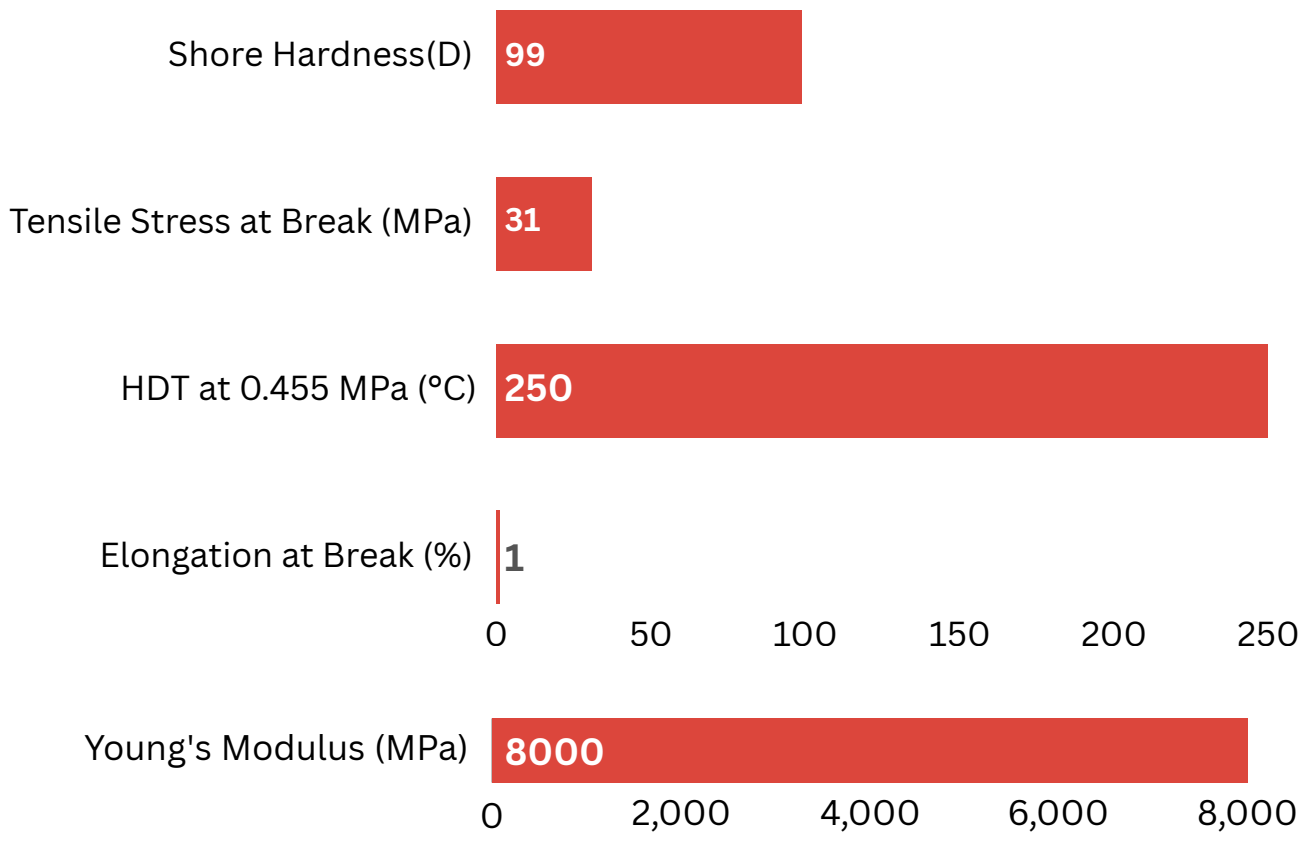
Sculpt High Temperature Resin

Key Features

- High resolution and low shrinkage for detailed and accurate prints
- High tolerance and precision for functional parts and prototypes
- High-temperature resistance of 250C
- Very strong chemical resistance due to ceramic composite
- Very low water absorption rate.

Application:

- Low run injection molds
- Vacuum forming
- Dental Application
- Artistic sculptures
- Designed for vulcanized rubber process



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Property Data

Mechanical Properties	Measure	Method	Post Processed
Tensile Stress at Yield	33	ASTM D638	-
Tensile Stress at Break	31	ASTM D638	-
Young's Modulus	8000	ASTM D638	-
Elongation at Break	1	ASTM D638	-
Flexural Modulus	7500	ASTM D790	-
Flexural Stress at Yield	120	ASTM D790	-
Flexural Strain at Break	14	ASTM D790	-

Other Properties	Measure	Method	Post Processed
HDT at 0.455 MPa	250	0.455 MPa	-
IZOD Impact (Notched) J	-	-	-
Shore Hardness	99D	-	-
Solid Density	1.6	-	-
Water Absorption (24hr)	0.01%	-	-

Liquid Properties	Measure	Method	Post Processed
Viscosity at 25°C (77°F)	650	25°C (77°F)	-
Liquid Density	1.13	-	-

Work Flow

Printing

Sculpt resin is a high-quality 3D printing material that offers exceptional ease of use and sandability. Specifically optimized for LCD/DLP printing, it is compatible with the Moonray printer and offers outstanding results for printing tabletop minis, digital sculptures, and other applications that require high-temperature resistance.

To achieve optimal results with Sculpt High Temperature 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

Here are some tips for cleaning your printed parts:

- 90%+ alcohol can effectively clean Sculpt resin
- A hair-based brush can be used to clean the resin more effectively
- If the printed part is still sticky after drying, the user can check by touching the dried surface. If it is still sticky, please wash and dry it again
- Sculpt resin can be easily sanded using 1000 grit sandpaper and a bit of mineral oil or water
- Mineral oil can add luster.

Post Curing

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

- Sculpt resin reaches its optimal strength when the printed part is post-cured with UV after cleaning.
- Use 395-405nm UV light and cure for about 15 minutes.
- Make sure the resin is completely cleaned off and there is no alcohol left on the print before curing
- Curing by submerging the object in water will significantly increase curing efficiency.