SurgiPro

Dental Surgical Guide Resin

Revision: Rev. A (supersedes v.3, 12.08.2024)

Document ID: RES-TDS-DENT-SRGPRO-Rev.A

Manufacturer: Resinify Technology LLC — Detroit, MI

Product Description

SurgiPro is a biocompatible, Class I–certified material developed for the production of high-precision surgical drill guides for use in implant surgery. Results produced with SurgiPro are superior to traditional methods of manufacturing implant placement guides. High-resolution 3D printing allows for precisely targeted placement of implants during surgery, and drill sleeves may be inserted directly after printing with excellent fit.

Key Properties

Property	Value
Ultimate Flexural Strength	79–85 MPa
Flexural Modulus	2059–2030 MPa
Water Sorption	30–32 µm/mm³
Water Solubility	0.5 µm/mm³
Viscosity @ 30°C	230–330 cP
Cytotoxicity	Passed (ISO 10993-5)

Applications

- High-precision surgical drill guides
- Implant surgery
- Precisely targeted placement of implants during surgery

Full Technical Specifications

Property	Value	Method
Ultimate Flexural Strength	79–85 MPa	ISO 20795-2
Flexural Modulus	2059–2030 MPa	ISO 20795-2
Water Sorption	30–32 µm/mm³	ISO 20795-2
Water Solubility	0.5 µm/mm³	ISO 20795-2
Viscosity @ 30°C	230–330 cP	—
Cytotoxicity	Passed	ISO 10993-5
Irritation and Skin Sensitization	Passed	ISO 10993-10

Storage & Handling

- Store in a dark environment when not in use.
- Preheat the material before each print for better printing results.
- Cool the material down after the print is finished.
- Mix the material with a material mixing card before starting a new job.
- Remove the material from the material tray and carefully pour it into a spare dark bottle.

Safety

- Always wear gloves when handling uncured material and alcohol.
- Ensure proper ventilation when using the material.
- Some materials used for washing may be flammable — do not wash parts near an ignition source.

Refer to the Safety Data Sheet (SDS) for complete safety and handling information.

Regulatory Compliance

Complies with relevant industry standards and regulations applicable to this product category. See Section titled Full Technical Specifications above for applicable ISO / ASTM test methods.

To the best of our knowledge, the information contained herein is accurate. However, Resinify Technology LLC makes no warranty, expressed or implied, regarding the accuracy of these results or the results to be obtained from the use thereof.