GuardPro

Dental Night Guard Resin

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Manufacturer: Resinify Technology LLC — Detroit, MI

Product Description

GuardPro is a biocompatible, crystal-clear material for the production of accurate splints and retainers. Results produced with GuardPro are superior to traditional methods of manufacturing bite guards and night guards: it is a clear material allowing maximum visibility, high-resolution 3D printing allows for a precise fit, and the cost of high-quality splints and retainers can be dramatically lower compared to previous machining methods.

Key Properties

Property	Value
Ultimate Flexural Strength	79–85 MPa
Flexural Modulus	2050–2130 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

- Splints and retainers
- Bite guards and night guards

Full Technical Specifications

Property	Value	Method
Ultimate Flexural Strength	79–85 MPa	ISO 20795-2
Flexural Modulus	2050–2130 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.