

Keysplint Soft for EnvisionTEC

Let us print your part!¹



KeySplint Soft for EnvisionTEC is a 3D printing resin ideal for printing splints and night guards. It is fully biocompatible and is in compliance with international medical device regulations and standards. Its robust formulation has three years of guaranteed shelf life, is color stable, and is validated in EnvisionTEC DLP and cDLM printers. KeySplint Soft for EnvisionTEC combines the strength needed to protect teeth with added flexibility for better patient comfort for precise, strong and smooth finished parts that are not brittle. The abrasion-resistant formula is easily polished and also easily cleaned by the patient.

Material Properties ²		
Description	Value	Standard
Flexural Strength	44-47 MPa	ASTM D790
Flexural Modulus	1,100 - 1,400 MPa	ASTM D790
Elongation at Break	>110%	ASTM D638
Shore D Hardness	80-85	ASTM D2240
IZOD Impact (Notched)	45-48 J/m	ASTM D256
Ultimate Flexural Strength	2.6 - 4.4 MPa	ISO 20795-2
Flexural Modulus	135-200 MPa	ISO 20795-2
Sorption	<18 µg/mm ³	ISO 20795-2
Solubility	<4.8 µg/mm ³	ISO 20795-2
Free Monomer Extraction	Pass	ISO 20795-2
Cytotoxicity	Pass	ISO 10993
Irritation	Pass	ISO 10993
Sensitization	Pass	ISO 10993

Recommended 3D Printer Family ³
Perfactory, Envision One, cDLM

¹ Learn more at EnvisionTEC.com/printmypart

² All data provided is preliminary and must be verified by the individual user

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HANDLING

For safe handling information on this product, consult the Safety Data Sheet (SDS)

Directions for Use

1. This product is light sensitive; exposure to daylight, UV light or artificial lighting should be kept to a minimum during storage and handling
2. Shake or stir Keysplint Soft for EnvisionTEC well before use due to the possibility that the colorants may separate or precipitate over long storage periods
3. For best 3D printing: Mix the 3D resin before each print. Do not leave resin in printer when not in use. Filter the resin after each 3D print before reuse
4. Excess material can be easily wiped away with non-polar solvents.

Storage

Store product in a cool, dry location, in unopened containers at a temperature between 8°C and 28°C unless otherwise labeled. To prevent contamination of unused product, do not return any material to its original container.



DISCLAIMERS

The product for which the data provided herein are furnished for informational purposes only and are believed to be accurate and reliable. Nevertheless, EnvisionTEC cannot and will not assume responsibility for the results obtained by others over whose production methods we have no control. thus, it is the user's responsibility to determine the suitability of this product for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling, storage, disposal and use thereof. In light of the foregoing, EnvisionTEC specifically disclaims any and all warranties expressed or implied, including warranties of merchantability, fitness for a particular purpose and free from claims of third party patent infringement, arising from the sale, possession, handling, storage, disposal, transportation or use of this product.

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