

E-Guide



EnvisionTEC's E-Guide is a biocompatible certified Class I material, developed for the production of high precision surgical drill guides for use in implant surgery. The results produced by combining E-Guide with EnvisionTEC technology are superior to traditional methods of manufacturing implant placement guides.

High resolution 3D printing allows for precisely targeted placement of implants during surgery. Drill sleeves may be inserted directly after printing, with excellent fit. E-Guide is registered with the FDA as a Class I medical device, and approved by Health Canada for use as a surgical guide material.

The cost of high quality drill guides can be dramatically lower when produced using E-Guide on an EnvisionTEC 3D printer in comparison to previous machining methods, making EnvisionTEC the clear choice for any digital dental laboratory.

Material Properties ¹		
Description	Value	Method
Ultimate Flexural Strength	79 - 85 MPa	DIN EN ISO 20795-2:2013
Flexural Modulus	2059 - 2030 MPa	DIN EN ISO 20795-2:2013
Water Sorption	30 - 32 $\mu\text{m}/\text{mm}^3$	DIN EN ISO 20795-2:2013
Water Solubility	0.5 $\mu\text{m}/\text{mm}^3$	DIN EN ISO 20795-2:2013
Viscosity @ 30°C	230 - 330 cP	Brookfield
Cytotoxicity	Passed	ISO 10993-5
Irritation and skin sensitization	Passed	ISO 10993-10

Recommended 3D Printer Family²

Perfactory, Micro, cDLM

¹ All data provided is preliminary and must be verified by the individual user

² May not be suitable for all machine models within a 3D printer family. Please refer to specific model online for compatibility.