

E-MFP



E-MFP (Metal Free Partial) is a revolutionary dental material able to be used in the production of ready-to-use partial denture. No need for casting and assembling, dental professionals will be able to create the partial framework in a biocompatible 3D printing material with incredible strength and flexibility. The balance between inorganic fillers and the resin give the material its high strength and wear resistance. E-MFP is easy to finish and polish, and can be stained with all types of composite staining kits to blend perfectly a beautiful and natural aesthetic.

Physical Properties		
Viscosity @ 30°C	660 cP	
Shore D	89-90	
Izod Notched Impact	20 J/m	
Heat Deflection Temperature	58°C @ 1.82 MPa	
Vickers Hardness	18 HV	
	Dry Material	After Immersion in Water 2 Days -37°C
Young's Modulus	1340 MPa	1330 MPa
Ultimate Strength	67.5 MPa	68.9 MPa
Strain at Break	16%	14%
Ultimate Flexural Strength	136 MPa	120 MPa
Flexural Modulus	3660 MPa	3300 MPa

Recommended 3D Printer Family²

Envision One cDLM, D4K Pro

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

E-MFP

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 E-MFP 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.

EnvisionTEC specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. Neither the product, nor the data or discussion herein of various processes for which, are to be interpreted as an express or implied license under any EnvisionTEC patents. EnvisionTEC recommends that any and all proposed commercial application(s) using this product be evaluated for reproducibility in the exact manner and on the production equipment with which it is intended to be used before repetitive commercial production use, using this data as a guide.

envisionTEC

Gladbeck, Germany • Dearborn, Michigan