



# Perfactory<sup>®</sup> Material

## E-Partial

EnvisionTEC's E-Partial chemistry was developed for building partials where some flex is required without damage. E-Partial material maintains flexural strength to ensure clasp flex without breakage. The stiffness of E-Partial allows for production of a very hard retention grid and super tight thin clasps to deliver a metal partial with the perfect fit every time. The EnvisionTEC 3D printers gives you high accuracy printing with unmatched speed. Printing partials is a snap in the E-Partial material and the Perfactory<sup>®</sup> 4 DDP 3D Printer. Unattended production means the machine can work while you are away. It will even turn itself off after completing a build.

Material Properties*	
Description	Value
Tensile Strength	57 MPa
Elongation at Break	3.6%
Flexural Strength	129 MPa
Flexural Modulus	3155 MPa
HDT (Heat Deflection Temperature) No heat treatment necessary	130° C at 0.455 MPa 78° C at 1.82 MPa
Shore D	89
Specific gravity	1.10-1.11 g/cm <sup>3</sup>
Viscosity	760 cP at 25° C

\*All data provided is preliminary data and must be verified by the individual user.

Recommended Machines
Desktop XL, Desktop Digital Dental Printer, PixCera, Perfactory <sup>®</sup> 4 Standard, Perfactory <sup>®</sup> 4 Mini, Perfactory <sup>®</sup> 4 DDP Series

Applications
Dental



### EnvisionTEC GmbH

Brüsseler Straße 51 • D-45968  
Gladbeck • Germany  
Phone +49 2043 9875-0  
Fax +49 2043 9875-99

### EnvisionTEC, Inc.

15162 S. Commerce Dr.  
Dearborn, MI 48120 • USA  
Phone +1-313-436-4300  
Fax +1-313-436-4303

[envisiontec.com](http://envisiontec.com)

[info@envisiontec.com](mailto:info@envisiontec.com)