



# Perfactory™ Material

## E-Dent

EnvisionTEC's E-Dent is a light-cured micro-hybrid filled dental crown and bridge material for long term temporaries for use on the Perfactory® High Productivity DDP machine. Provisionals are photo polymerized on a voxel-by-voxel basis (volumetric pixel) of the liquid resin. E-Dent can also be used for printing of very tough veneers that are extremely accurate with a very fine surface finish. E-Dent is currently available in 3 shades A1, A2 and A3. Structures can be cut back and then layered using any light-curable shade composite. It is FDA approved. EnvisionTEC's E-Dent has been developed especially for the manufacturing of long term crown and bridge provisional. Full crowns or multi unit bridges can be printed. The printed design can also be cut back to allow for color layering and shading.

Material Properties*	
Description	Value
Filler content by weight in %	49%
Filler content by volume in %	30%
Vickers hardness	25 HV
Flexural Strength	> 90 N/mm <sup>2</sup>
Modulus of Elasticity	> 4400 N/mm <sup>2</sup>
Tensile Strength	30 N/mm <sup>2</sup>
Compressive Strength	> 250 N/mm <sup>2</sup>
Water Absorption	18.1 µm/mm <sup>3</sup>

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

Recommended Machines
PixCera, Desktop Digital Dental Printer, Perfactory® 4 DDP, Perfactory® 3 Standard

Applications
Dental



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