

# Micro Material

## Press-E-Cast M

EnvisionTEC's Press-E-Cast M is a wax-filled photopolymer material designed for use on the EnvisionTEC Perfactory® Micro DDP. Press-E-Cast M produces highly detailed anatomy with crisp features. Its stiffness allows for the production of copings with extremely thin margins as well as full anatomical crowns. It is also possible to produce a perfectly fitting multiple unit bridge up to 16 units. Press-E-Cast M has a very low thermal expansion during burnout and produces a high quality surface finish on cast or pressed parts. It is the only photopolymer-based material that actually melts during the burnout cycle, allowing for the material to melt out of the investment without leaving any ash residue which is a common problem associated with the burning of photopolymers used in competing technologies. Low material expansion allows the dental lab to rapid burnout and cast with any dental alloy avoiding flash due to micro-cracking in the investment. Pressing or casting in any material works well with conventional spruing techniques and investments. Average build times are under 2.5 hours for a full platform which allows the lab to produce several builds in an 8 hour shift. Unattended production means the machine can work while you are away. It will even turn itself off after completing a build.

Material Comparisons of Mechanical Properties*	
Description	Value
Tensile Strength	56 MPa
Elongation at Break	3.5%
Flexural Strength	115 MPa
Flexural Modulus	3350 MPa
HDT (Heat Deflection Temperature) No heat treatment necessary	140° C (284°F)

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

Recommended Machines
Perfactory® Micro DDP

Applications
Dental

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