

# Perfactory® Press-E-Cast

Acrylic

EnvisionTEC, Inc.

## Message:

EnvisionTEC's Press-E-Cast is a wax-filled photopolymer material designed for use on the Pixcera and Perfactory® 4 DDP (Digital Dental Printer). Press-E-Cast 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 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.

## Applications

Dental

Recommended Machines:

PixCera, Perfactory® 4 DDP

General Information		
Features	Good Crack Resistance	
	Good Stiffness	
	Low CLTE	
	Outstanding Surface Finish	
Uses	Dental Applications	
	Mold Making	
	Molds/Dies/Tools	
	Prototyping	
Appearance	Opaque	
Forms	Liquid	
Processing Method	3D Printing, Stereolithography	
Mechanical	Nominal Value	Unit
Tensile Strength	56.0	MPa
Tensile Elongation (Break)	3.5	%
Flexural Modulus	3350	MPa
Flexural Strength	115	MPa
Thermal	Nominal Value	Unit
Heat Deflection Temperature <sup>1</sup>	140	°C
NOTE		
1.	No heat treatment necessary	

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Recommended distributors for this material

## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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