## Perfactory® E-Partial

## Acrylic

EnvisionTEC, Inc.

## Message:

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 Perfactory® 4 DDP 3D printer gives you high accuracy printing with unmatched speed. Printing partials is a snap in the E-Partial material and the Perfactory® 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.

Applications Dental Recommended Machines: Perfactory® 4 DDP Series

General Information			
Features	Good Flexibility		
	Good Stiffness		
	Outstanding Surface Finish		
Uses	Dental Applications		
Forms	Liquid		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	
Specific Gravity	1.10 to 1.11	g/cm³	
Viscosity (25°C)	760	mPa·s	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore D)	89		
Mechanical	Nominal Value	Unit	
Tensile Strength	57.0	MPa	
Tensile Elongation (Break)	3.6	%	
Flexural Modulus	3160	MPa	
Flexural Strength	129	MPa	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>1</sup>			ASTM D648
0.45 MPa, Unannealed	130	°C	
1.8 MPa, Unannealed	78.0	°C	
NOTE			
1.	No heat treatment necessary		

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