

Perfactory® E-Shell 200

Unspecified

EnvisionTEC, Inc.

Message:

EnvisionTEC's E-Shell 200 Series is a low viscosity liquid photopolymer that produces strong, tough, water-resistant ABS like parts with high detail that are Class IIa biocompatible according to ISO 10993/Medical Product Law and are CE certified for use as hearing aid products, otoplastics, and medical devices. The E-Shell 200 Series is available in several different skin tone colors and can be customized on demand. Because of their opaque appearance similar to production plastic they can also be used for non-medical applications.

The E-Shell 200 Series has been designed especially for applications in the Medical Device and Hearing Aid industries being CE marked as a medical product. E-Shell 200 mimics traditional engineering plastics ABS, which makes it usable in many other non-hearing-aid applications.

Applications

Hearing Aid

Features

Tough function prototypes

Appearance models with minimal finishing

Durable concept models with high cross linkage

High humidity environment applications

RTV patterns

Water resistant applications

Hearing aid devices manufacturing

Recommended Machines:

DDSP, Mini DDSP, Perfactory® 3 DSP, Perfactory® 4 DSP, Perfactory® 4 DSP XL

General Information	
Features	Biocompatible
	Durable
	Good Strength
	Good Surface Finish
	Good Toughness
	Humidity Resistant
	Low to No Water Absorption
	Low Viscosity
Uses	Medical Devices
	Medical/Healthcare Applications
	Modeling Material
	Mold Making
	Patterns
	Prototyping
Agency Ratings	ISO 10993
Appearance	Beige
	Brown
	Colors Available
	Pink
	Tan

Forms	Liquid		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	Test Method
Water Absorption (Equilibrium)	0.12	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ASTM D638
Tensile Strength	57.8	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.2	%	
Break	6.0	%	
Flexural Modulus	2300	MPa	ASTM D790
Flexural Strength	103	MPa	ASTM D790
Poisson's Ratio	0.21		ASTM D638
Dielectric Strength	14.6		ASTM D149
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	2100	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	109	°C	ASTM E1545

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WECHAT