

Perfactory® E-Shell 300

Acrylic

EnvisionTEC, Inc.

Message:

The EnvisionTEC E-Shell 300 series has been designed especially for applications in the Hearing Aid industries and is distinguished for rigidity and durability. The material is used on Perfactory® UV machines only. EnvisionTEC E-Shell 300 is a liquid, photo-reactive acrylate for building functional parts. It is CE certified and Class-IIa biocompatible according to ISO 10993 (Medical Product Law) for Hearing Aid shells and otoplastics. They are tough, opaque, water- and perspiration-resistant and available in several different transparent tones like water clear, rosé clear, red, and blue.

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 Series, Perfactory® 3 DSP, Perfactory® 4 DSP Series

General Information	
Features	Biocompatible
	Durable
	Good Surface Finish
	Good Toughness
	High Rigidity
	Humidity Resistant
	Low to No Water Absorption
Uses	Medical Devices
	Medical/Healthcare Applications
	Modeling Material
	Mold Making
	Patterns
	Prototyping
Agency Ratings	ISO 10993
Appearance	Black
	Blue
	Brown
	Clear/Transparent
	Colors Available
	Light Brown
	Opaque

Red
White

Forms	Liquid		
Processing Method	3D Printing, Stereolithography		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Viscosity	340	mPa·s	DIN 1342
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	85		ASTM D1004
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	51.6	MPa	ISO 527-2
Tensile Strain (Break)	6.6	%	ISO 527-2
Flexural Modulus	1920	MPa	ISO 178
Flexural Stress (8.4% Strain)	88.4	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	5.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	86.0 to 160	°C	ASTM D570

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Recommended distributors for this material

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