E-Shell 300 Series

Let us print your part![1]

EnvisionTEC's E-Shell 300 Series has been designed especially for applications in the Hearing Aid industries and is distinguished for rigidity and durableness. The material 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. Each material is tough, water- and perspiration-resistant, and available in a number of transparent and opaque tones for the production of ear molds and ear shells.

Material Properties[2, 4]		
ASTM Method	Description	Value
DIN 134202	Viscosity	339.8 Mpa's
DIN EN ISO 527-1	Tensile Stngth	51.6 MPa
DIN EN ISO 527-1	Elongation at Break	6.62%
DIN EN ISO 178	Bending Strain	8.43%
DIN EN ISO 178	Flexural Strength	1,920 MPa
DIN ISO 178	Flexural Modulus	88.4 MPa
DIN EN ISO 180	Izod Impact - Notched	4.99 kj/m^2
DIN ISO 1183-1	Density	1.185 g/cm^3
DIN EN ISO 868	Hardness (Shore D)	85 Shore
D570-98	Glass Transmission Temperature	86°C - 160°C

Recommended 3D Printer Family[3]
Perfactory Family, Micro Family

[1] Learn more at EnvisionTEC.com/printmypart
[2] All data provided is preliminary and must be verified by the individual user
[3] May not be suitable for all machine models within a 3D printer family. Please refer to specific model online for compatibility.