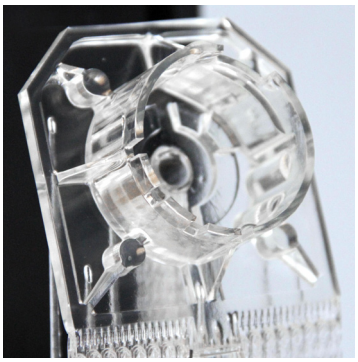
E-Clear Series

Let us print your part![1]



EnvisionTEC's E-Clear (formerly known as E-Shell 450) Series are liquid photopolymers that produce strong, tough,water-resistant parts especially for applications requiring exceptional clarity. It comes in both a crystal clear and a transparent smoke color.

E-Clear is distinguished for its rigidity and durableness. It remains clear without any of the yellowing with age that competitive clear 3D printing materials show. E-Clear 3SP has a very low warp potential.

E-Clear 3SP is ideal for water resistant applications, high humidity environment applications, durable concept models, appearance models with minimal finishing, tough and functional prototypes, and RTV patterns.

Material Properties[2]	
Description	Value
Tensile strength	40-48 MPa
Elongation at break	2-4%
Tensile modulus	2150 - 3250 MPa
Flexural strength	60 - 80 MPa
Flexural modulus	1200 - 1500 MPa
Izod impact	30 J/m
HDT	75°C at 1.82 MPa
Hardness, D Scale	82 - 85
Viscosity	320 cP at 30°C

Recommended 3D Printer Family
Blade 3SP Family, 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.