ProtoEdge
PROTOTYPE & PRODUCTION PARTS

PROTOEDGE.COM

SLA Materials

Stereolithography (SLA)

We can convert your CAD files into 3D objects, dimensionally accurate very fast, using the stereolithography method. Accura 25, SLA models can be built up to 25.6" x 29.5" x 21.65" (650mm x 750mm x 550mm). Larger models of virtually any size may be sectioned and assembled upon completion. High resolution slice is 0.002" and standard resolution slice is 0.004" which is used for most of ProtoEdge builds.

Accuracy is ± .005" for the first 5 inches and ± .001" inch per inch thereafter. Smooth surface with no visible layer lines once sanded or honed. SLA is one of the fastest ways to achieve quality clear lens like parts which may also be polish or tinted to mimic IR or LED monitoring.

Process Stereolithography

Product:	Accura 25 – Natural White
Part Density (ASTM D792):	1.19 g/cm^3
Tensile Strength Ultimate (ASTM D638):	38 MPa – 5,540 – 5,570 PSI
Tensile Modulus (ASM D638):	2,690 -3,100 MPa – 230 – 240 KSI
Elongation at Break (ASTM D638):	13 - 20%
Flexural Strength, Ultimate (ASTM D790):	55 - 58 MPa – 7,960 – 8,410 PSI
Flexural Modulus (ASTM D790):	1,380 – 1,660 MPa – 200 – 240 KSI
Impact Strength (notched Izod. 23C):	19 - 24 J/cm – 0.4ft-lb/in
Heat Deflection Temperature (HDT) (ASTM D648 @ 264 PSI):	51 - 55℃ | 124 - 131℉
Applications:	Good for fit, form and function models to mimic HDPE, Polypropylene & other thermoplastics.

Disclaimer: All tolerance specifications reflect the approximate range of a process's capabilities and should be viewed only as a guide. Actual capabilities are dependent upon manufacturing, equipment, material, and part requirements.