

# STEREOLITHOGRAPHY

# ABS-LIKE GRAY

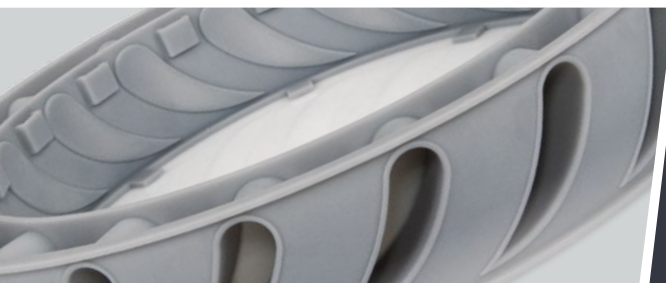


## Product Description

ABS-Like Gray is a widely used, all-purpose material that provides flexibility relative to other SLA resins. It is an ideal stereolithography material for durability and heat tolerance. Parts built with ABS-Like Gray will have a look and feel similar to a molded plastic.

## Applications

ABS-Like Gray's well-rounded mechanical properties make it suitable for form-and-fit prototypes, snap-fit assemblies, consumer electronic components, and medical device prototypes.



## Key Product Benefits

- ▶ Good strength and flexibility
- ▶ Durability
- ▶ Gray color

## Tolerances

For well-designed parts, tolerances in the X/Y dimension of  $\pm 0.002$  in. (0.05mm) for the first inch plus  $\pm 0.001$  in./in., and Z-dimension tolerances of  $\pm 0.005$  in. (0.127mm) for the first inch plus  $\pm 0.001$  in./in. (0.001mm/mm), can typically be achieved. Note that tolerances may change depending on part geometry.

## Properties

| Property  | Test Method                    | Value                  |
|---|--------------------------------|------------------------|
| Color   | -                              | Gray                   |
| Density in solid state*                         | @ 25 °C (77 °F)                | 1.19 g/cm <sup>3</sup> |
| Water absorption (20 °C, 50% relative humidity) | ASTM D570                      | 0.65 $\pm$ 0.15%       |
| E-module (x-y plane)                            | ASTM D638, test speed 10mm/min | 2,000 $\pm$ 400 MPa    |
| Tensile strength (x-y plane)                    | ASTM D638, test speed 10mm/min | 40 $\pm$ 8 MPa         |
| Elongation at break (x-y plane)                 | ASTM D638, test speed 10mm/min | 9 $\pm$ 5%             |
| Heat deflection temperature @ 0.46 MPa*         | ASTM D648                      | 62 °C (144 °F)         |
| Heat deflection temperature @ 1.82 MPa*         | ASTM D648                      | 54 °C (129 °F)         |

\* From supplier data sheet