

STEREOLITHOGRAPHY

ABS-LIKE GRAY

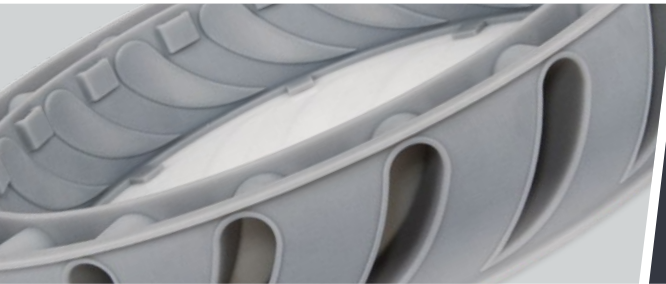


Product Description

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 ± 0.002 in. (0.05mm) for the first inch plus ± 0.001 in./in., and Z-dimension tolerances of ± 0.005 in. (0.127mm) for the first inch plus ± 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 ³
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