

STEREOLITHOGRAPHY

ABS-LIKE WHITE



Product Description

ABS-Like White is a widely used, all-purpose material that provides flexibility relative to other SLA resins. It is an ideal stereolithography material for durability. Compared to the average value for injection-molded ABS, it will have a slightly higher tensile strength but lower elongation at break. ABS-Like White's heat deflection is the lowest of all SLA materials.

Applications

ABS-Like White'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
- ▶ Dimensional Stability

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	-	White
Density in solid state*	@ 25 °C (77 °F)	1.18 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	3,300 \pm 400 MPa
Tensile strength (x-y plane)	ASTM D638, test speed 10mm/min	55 \pm 10 MPa
Elongation at break (x-y plane)	ASTM D638, test speed 10mm/min	9 \pm 5%
Heat deflection temperature @ 0.46 MPa*	ASTM D648	47 °C (117 °F)
Heat deflection temperature @ 1.82 MPa*	ASTM D648	42 °C (108 °F)

* From supplier data sheet