

STEREOLITHOGRAPHY

ABS-LIKE Black



Product Description

ABS-Like Black is a durable material for general purpose prototyping. Its deep black color and glossy, cosmetic up-facing surfaces in a top profile offer the appearance of a molded part. Part sidewalls and down-facing surfaces will have a matte finish. The material has good dimensional stability and moisture resistance.

Applications

ABS-Like Black is a good general purpose material for a variety of prototypes that mimic molded prototypes as well as functional assemblies. Common uses include housings for electronics and consumer goods.



Key Product Benefits

- ▶ Glossy, cosmetic up-facing surface
- ▶ Moisture resistance
- ▶ 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	-	Black
Density in solid state*	@ 25 °C (77 °F)	1.16 g/cm ³
Water absorption (20 °C, 50% relative humidity)	ASTM D570	0.25 ± 0.15%
E-module (x-y plane)	ASTM D638, test speed 10mm/min	3,000 ± 400 MPa
Tensile strength (x-y plane)	ASTM D638, test speed 10mm/min	55 ± 10 MPa
Elongation at break (x-y plane)	ASTM D638, test speed 10mm/min	5 ± 3%
Heat deflection temperature @ 0.46 MPa*	ASTM D648	51 °C (124 °F)
Heat deflection temperature @ 1.82 MPa*	ASTM D648	-

* From supplier data sheet