

STEREOLITHOGRAPHY

ABS-LIKE BLACK

Supplier Data Sheet:

[Accura Black 7820](#)

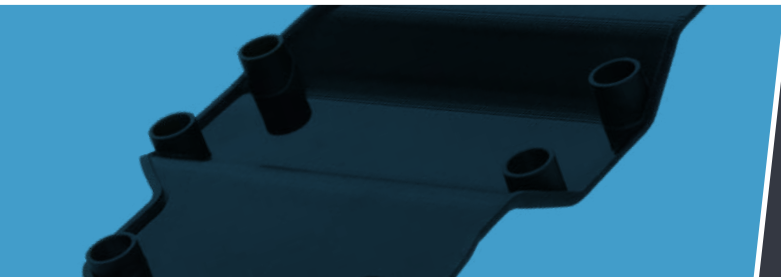


PRODUCT DESCRIPTION

ABS-Like Black is a durable material for general purpose prototyping. Its deep black colour and glossy, cosmetic up-facing surfaces in a top profile offer the appearance of a moulded 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 moulded 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

PROPERTIES

PROPERTY	TEST METHOD	VALUE
Colour	-	Black
Density in solid state*	@ 25 °C (77 °F)	1.16 g/cm ³
Water absorption (20 °C, 50% relative humidity)	DIN EN ISO 62	0.25 ± 0.15%
E-module (x-y plane)	DIN EN ISO 527, test speed 10mm/min	3,000 ± 400 MPa
Tensile strength (x-y plane)		55 ± 10 MPa
Elongation at break (x-y plane)		5 ± 3%
Heat deflection temperature @ 0,46 MPa*	DIN EN ISO 75	51 °C (124 °F)
Heat deflection temperature @ 1,82 MPa*		-

*From supplier data sheet

TOLERANCES

For parts that are built in High Resolution (HR): The tolerances for well-designed parts are in the X / Y direction ± 0.05mm plus an additional ± 0.001mm / mm; In Z direction ± 0.13mm plus additional ± 0.001mm / mm.

For parts that are built in Normal Resolution (NR): The tolerances for well-designed parts are in the X / Y direction ± 0.1mm plus an additional ± 0.001mm / mm; In Z direction ± 0.13mm plus additional ± 0.001mm / mm.

Note that tolerances may change depending on part geometry.

Version 1.0 | March 2020