

SLA - Black

Black photopolymer



The black photopolymer has a smooth, sharp-edged surface with a matt finish that is well suited for paintwork, material models and presentation models. The material properties of Black CL03 can also resemble ABS but only after a UV-treatment.

Mechanical Attributes

Attribute	test standard	Value*
Tensile Strength	ASTM D638-10	65 MPa
Tensile modulus	ASTM D638-10	2800 MPa
Elongation at break	ASTM D638-10	6.2 %
Flexural modulus of elasticity	ASTM C790-10	2200 MPa
Izod notched impact strength (at 23 °C)	ASTM D256-10	25 J/m
Hardness		80 Shore D
Heat resistance @0,45 MPa	ASTM D648-07	73.1 °C
Heat resistance @1,80 MPa	ASTM D648-07	58.4 °C
Density		1.1 ± 0.02 g/cm³

*depending on various parameters, in particular the printing orientation

Chemical Resistance

Chemical	Resistance	Weight gain
Acetone	no	

Bleach (5 % NaOCl)	yes
Butyl acetate	yes
Diethyl glycol monomethyl ether	yes
Acetic acid (5 %)	yes
Isooctane	yes
Isopropyl alcohol	yes
Saline solution	yes
Water	yes
Hydrogen peroxide (3%)	yes
Xylene	yes

Practical example

Component Zahnrad

Size	38 x 38 x 8 mm
Volume	5 cm ³
Price	17,85 € (100m) / 21,46 € (50 m) Incl. VAT, plus delivery costs

