



PRODUCT:

LCD - Engineering black resin

Engineering Black Resin is a high-performance photopolymer designed for LCD 3D printing, offering an excellent balance of strength, toughness, and dimensional accuracy. Its smooth black finish and reliable mechanical properties make it an ideal choice for functional prototypes, engineering validation, and low-volume production parts. Suitable for applications requiring durability and precision, this resin is commonly used for mechanical components, electronic enclosures, jigs and fixtures, manufacturing aids, and end-use parts.

PART PROPERTIES	VALUE	UNIT	METHOD
Part colour	Black	-	-
Part density	1,14 - 1,20	g/cm3	-
Layer Thickness	0,1	mm	-
Tensile modulus	2,100	Mpa	ASTM D638
Ultimate Tensile Strength	54	Mpa	ASTM D638
Elongation at break	28	%	ASTM D638
Flexural Modulus	1,950	Mpa	ASTM D790
Flexural Strength	78	Mpa	ASTM D790
Hardness	86	Shore D	ASTM D2240
Impact Strength Notched Izod	110	J/m	ASTM D256
Heat Deflection Temperature (@ 0,45Mpa)	75	°C	ASTM D648

Please be aware that the mechanical properties listed represent the manufacturer's optimal values. Due to the layer-by-layer production method and the unique design of each product, these values may vary. If specific properties or dimensions are crucial, we strongly recommend reaching out to us for guidance on achieving the desired specifications!

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