

MATERIAL PROPERTIES

Density	1.07 g/cm ³	ISO 1183
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Mechanical Properties

Tensile Modulus (Young)	8000 MPa	ISO 527-1
Tensile stress at break	125 MPa	ISO 527-2
Tensile strain at Break	5%	ISO 527-2
Notched Izod Impact Strength 23C	15 [kJ/m ²]	ISO 180/A
Unnotched Izod Impact Strength 23C	75 [kJ/m ²]	ISO 180

Thermal Properties

Heat Distortion Temperature (66 psi 0,45 MPa)	170°C	ISO 75-2/B
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PRINT SETTINGS

Nozzle temperature	255-270°C
Bed temperature	90-110°C
Active cooling fan	70-90%
Print speed**	40-120 mm/s
Closed chamber	yes
Dry box	yes
Ruby or hardened nozzle	yes

CECHY FILAMENTU

Extremely durable filament additionally reinforced with carbon fiber. Resistant to high temperatures and chemicals. It allows you to print functional and utility models, which makes it a real alternative to elements previously made on injection molding machines. Matte, irregular finish and hardly visible layers increase the aesthetics of prints. The addition of carbon fibers reduces shrinkage, making the material easy to print. It requires the use of a steel nozzle, but the carbon fibers used in our filament with reduced abrasion will significantly extend its life. Compared to other filaments available on the market, our PA Carbon is characterized by low water absorption from the air, which guarantees a trouble-free printing process. The printed model can be successfully drilled, grinded using tools used in metalworking. In addition, you can permanently connect components with screws without the need for threading.

STORAGE

Ensuring proper storage conditions is a guarantee that the shelf life of the filament will be 2 years. The product should be stored in a dry room at room temperature (18-25°C), protected from moisture and exposure to sunlight and heat.

DISCLAIMER

The above data are for illustrative purposes only. Print parameters may change depending on conditions such as print geometry, surroundings, etc. These values are indicative and should not be construed as binding specifications. 3D Logic sp. z o.o. does not bear any responsibility for material losses, damage to health related to the use of the material.