

Date of issue: October 27 , 2022
Version: v1.0

ColorFabb PETG Economy is a high quality PETG 3D printing filament, available in a limited amount of colors. Our PETG Economy is an easy to print material with good layer adhesion and low warping.

TYPICAL MATERIAL PROPERTIES – 3D Printed

Physical properties	Unit	Value	Method
Tensile modulus	MPa	1930	ISO 527
Yield strength	MPa	51.25	ISO 527
Yield strain	%	4.35	ISO 527
Tensile strength	MPa	51.25	ISO 527
Tensile strain at tensile strength	%	4.35	ISO 527
Tensile stress at break	MPa	28.67	ISO 527
Tensile strain at break	%	91.06	ISO 527
Flexural modulus	MPa	1000	ISO 178
Flexural strain at standard deflection	MPa	42.35	ISO 178
Flexural strength	MPa	68.17	ISO 178
Flexural strain at flexural strength	%	7.79	ISO 178
Charpy notched impact strength	kJ/m ²	4.72	ISO 179-1/1 eU
Heat Deflection Temperature (HDT)	°C	76.75	ISO 75

Technical datasheet

PETG Economy

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TYPICAL MATERIAL PROPERTIES – Injection molded

Physical properties	Unit	Value	Method
Density	g/cm ³	1,28	
Glass transition temperature	°C	70	
Tensile modulus	MPa	2000	ISO 527
Tensile strength	MPa	49	ISO 527
Tensile strain at break	%	36	ISO 527

FILAMENT SPECIFICATION

Nominal diameter:	Diameter tolerance	Ovality
1,75 mm	± 0,10	≥ 95%
2,85 mm	± 0,10	≥ 95%

Netto filament weight 750g

GUIDELINE FOR PRINT SETTINGS

Nozzle temperature	235 – 255 °C
Bed temperature	70 – 80 °C
Bed surface / modification	-
Active cooling fan	75 – 100% fan cooling for best aesthetics, this gives best performance on overhangs and small details. For best mechanical performance try printing with the least amount of cooling needed, for optimal layer adhesion.
Print speed	30 – 50 mm/s

Notes

The reported properties are an average of a batch of 3D printed specimens. The specimens have been printed in XY plane, using 0.15mm layerheight, 100% infill, 0.4mm nozzle, 245 °C nozzle temperature and 70 °C bed temperature.

Disclaimer

The product- and technical information provided in this datasheet is correct to the best of our knowledge. The information given is provided as a guidance for good use, handling and processing and is not to be considered as a quality specification. The information only relates to the specific product and the material properties.