

# PETg Additive Filament

Jabil Engineered Materials PETg is an easy processing, standard product for printing jobs requiring good strength and stiffness with a good balance of properties in XY and Z directions. Applications include housings; jigs, fixtures and tooling; and general printing. This material has a print profile available on Ultimaker Cura Marketplace and produces excellent surface quality parts that can be printed at max speeds with minimal shrinkage.

## ADVANTAGES

Easy printability, low shrinkage and warpage, good continuous-use temperature and very consistent lot-to-lot print properties with a ISO 9001 Certificate of Analysis with every spool.

## STORAGE AND USE

PETg is a hygroscopic material, meaning it will absorb moisture from the atmosphere, affecting visual quality and mechanical properties. For best results, print and store filament in a dry environment. If necessary, dry filament in an oven at 65 °C (150 °F) for 6 – 12 hours.

## PROPERTIES

### MECHANICAL PROPERTIES

	Test Condition	Typical Value	Method
Tensile Modulus (MPa)	XY coupons, Ambient	1655	ASTM D638
Tensile Yield Strength (MPa)	XY coupons, Ambient	45	ASTM D638
Tensile Elongation at Break (%)	XY coupons, Ambient	24	ASTM D638
Ultimate Tensile Strength (MPa)	XY coupons, Ambient	45	ASTM D638
Flexural Modulus (MPa)	Ambient	1585	ASTM D790-17, Procedure B
Flexural Strength (MPa)	Ambient	1160	ASTM D790-17, Procedure B



**THERMAL PROPERTIES**

	Test Condition	Typical Value	Method
Heat Deflection Temperature (°C)	0.455 Mpa	71	ASTM D648-16, Method B

**OTHER PHYSICAL PROPERTIES**

	Test Condition	Typical Value	Method
Density (g/cm <sup>3</sup> )	Ambient	1,24	ASTM D792-13, Method A

**Disclaimer:** The information in this technical data sheet, including material properties, are obtained from testing representative samples under carefully controlled conditions and are provided for reference only. Material properties may be impacted by storage, handling, processing equipment/parameters, and product design, among other factors. The information is not a substitute for user testing to determine fitness for any specific use and the user is responsible for ensuring safe and lawful use of the product.

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