

## Technical specification

### Everfil™ PET-G

#### DESCRIPTION

**PET-G Polyethylene terephthalate** (sometimes written poly(ethylene terephthalate)), commonly abbreviated **PET**, **PETE**, or the obsolete PETP or PET-P, is the most common thermoplastic copolymer resin of the polyester family and is used in fibres for clothing, containers for liquids and food, thermoforming, and as a material for engineering purposes (3D printing for example).

**Everfil™ PET-G** filament is a formulation of PET plastic intended to help your 3D prints stand out with a beautiful, glossy, good transparency finish and best used when producing high quality, precision 3D prints. Printed parts Everfil®PET-G filament will withstand higher temperatures than PLA and ABS plastic. The natural material is a neutral transparent and is readily coloured with pigments or dyes.

#### TYPICAL PROPERTY VALUES

Filament	Nominal Value	Unit	Test Method
Filament diameter	1,75 , 2,85	mm	-
Diameter tolerance	+/- 0,03	mm	-
Spool weight	1,0 , 3,0	kg netto	-

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1,27	g/cc	ASTM D729
MFR	8,0	g/10min	ASTM D1238
Vicat Softening Temperature	80 - 95	°C	ASTM D3418
Clarity	transparent		

Mechanical	Nominal Value	Unit	Test Method
Tensile Yield Strength	50	MPa	ASTM D638
Rockwell Hardness	108	-	ASTM D785
Tensile Modulus	2200	MPa	ISO 527
Charpy Impact Strength	179 (23°C)	kJ/m2	ISO179
IZOD Impact Strength	33.0(23°C)	kJ/m2	ISO 180/1A
Flexural Strength	79	MPa	ISO 178

#### PRINT CONDITIONS Everfil™ PET-G (may be different for different printers)

3D Printers	Typical Value	Unit
Printing temperature	220 – 245	°C
Bed temperature	70 – 90	°C
Cooling (due to design)	10 – 50	%

#### STORAGE

Filament can't handle moisture very well and that is why we recommend storing your filament in a cool, dry environment, ideally in a package vacuum sealed with silicate.

