



# Technical specification Everfil<sup>™</sup> 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 coopolymer resin of the polyester family and is used in fibres for clothing, cointainers for liquids and food, thermoforming, and as a material for engineering purposes (3D printing for example.

**Everfil<sup>™</sup> 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
vical Soliening Temperature	00 00	•	Norm Borrio
Clarity	transparent		
Clarity	transparent Nominal Value	Unit	Test Method
Clarity Mechanical Tensile Yield Strength	transparent Nominal Value 50	Unit MPa	Test Method ASTM D638
Mechanical Tensile Yield Strength Rockwell Hardness	transparent Nominal Value 50 108	Unit MPa -	Test Method ASTM D638 ASTM D785
Mechanical   Tensile Yield Strength   Rockwell Hardness   Tensile Modulus	transparent Nominal Value 50 108 2200	Unit MPa - MPa	Test Method ASTM D638 ASTM D785 ISO 527
Clarity Mechanical Tensile Yield Strength Rockwell Hardness Tensile Modulus Charpy Impact Strength	transparent Nominal Value 50 108 2200 179 (23℃)	Unit MPa - MPa kJ/m2	Test Method ASTM D638 ASTM D785 ISO 527 ISO179
Vical Soliening Temperature     Clarity     Mechanical     Tensile Yield Strength     Rockwell Hardness     Tensile Modulus     Charpy Impact Strength     IZOD Impact Strength	transparent     Nominal Value     50     108     2200     179 (23°C)     33.0(23°C)	Unit MPa - MPa kJ/m2 kJ/m2	Test Method ASTM D638 ASTM D785 ISO 527 ISO179 ISO 180/1A



#### PRINT CONDITIONS **Everfil<sup>™</sup> 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.

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