

PETG FP

INNOVATEFIL® PETG FP is a product based on Copolyester Glycol (PETG), modified with flame retardant additives, complies with the V-0 specification according to the UL94 standard, flame-retardant polymer based on halogens and red phosphorus.



Fireproof



Chemical resistance

	VALUES	UNIT OF MEASUREMENT	STANDARD
PHYSICAL PROPERTIES			
Chemical composition	Polyethylene glycol terephthalate compound		
Density	1.26	g/cm ³	ISO 1183
MECHANICAL PROPERTIES ¹			
Tensile strength	40	MPa	ISO 527
Traction module	2350	MPa	ISO 527
Flexible force	-	MPa	ISO 178
Bending modulus	-	MPa	ISO 178
Traction elongation (until breakage)	40	%	ISO 178
Charpy Impact Force (notch, 23°C)	3	kJ/m ²	ISO 179
Hardness	-	Shore D	ISO 7619 – 1
THERMAL PROPERTIES			
Softening temperature VICAT – B	70	°C	ISO 306
Thermal deflection temperature HDT – A	63	°C	ISO 75
Thermal deflection temperature HDT – B	58	°C	ISO 75
FLAMMABILITY			
Oxygen index	35	%	ASTM D2863
GWFI - Glow Wire Flammability Index (@ 1 y 2 mm)	960	°C	IEC 60695-2-12
GWIT – Glow Wire Ignition Test (@ 1 y 2mm)	775	°C	IEC 60695-2-12
PRINT PROPERTIES			
Printing temperature	235 – 260	°C	
Temperature of the base or bed	40 – 80	°C	
Print speed	35-50	mm/s	

TECHNICAL DATA SHEET



SIZE	NET WEIGHT	GROSS WEIGHT	DIAMETER	COLOR	PACKING
M	750 g	975 g	1.75 mm/2.85 mm	Several	Cardboard box, aluminum vacuum bag, desiccant bag.

NOTICE: The information provided in the data sheets is intended to be for reference only. It should not be used as design values or quality control. Actual values can differ significantly depending on printing conditions. The final performance of printed components not only depends on the materials, design and printing conditions are also important.