TECHNICAL DATA SHEET

VERSION 1.2
REVIEW: 20/03/2023

INNOVATEFIL®

PP GF

INNOVATEFIL PP GF is a filament with a polypropylene base reinforced with a high load of fiberglass, which considerably improves the dimensional stability of the final piece, achieving very good quality finishes.

In addition, thanks to the incorporation of these fibers, we obtain a more rigid material than PP without load, but with enough flexibility to provide high impact, mechanical and thermal resistance.


Allow for all printers


Impact resistance


Chemical resistance


High industrial capacity

	VALUES		UNIT OF MEASUREMENT	STANDARD
PHYSICAL PROPERTIES				
Chemical name	Polypropylene with Fiberglass			
Density			g/cm^3	ISO 1183
MECHANICAL PROPERTIES[1]	**XY PLANE**	**XZ PLANE**		
Tensile strength	-	-	MPa	ISO 527
Traction module	-	-	MPa	ISO 527
Flexion strength	-	-	MPa	ISO 178
Flexion module	-	-	MPa	ISO 178
Elongation at maximum effort	-	-	%	ISO 527
Stretch traction at break	-	-	%	ISO 527
Elongation of flexion at break	-	-	%	ISO 178
Charpy Impact Force (non-notched)	-	-	kJ/m^2	ISO 179
Hardness	-		Shore D	ISO 7619-1
THERMAL PROPERTIES				
Glass transition temperature (Tg)	-		˚C	ISO 11357
VICAT B (50 N 50˚C/h)	-		˚C	ISO 306
HDT B (0,45 MPa)	-		˚C	ISO 75
PRINTING PROPERTIES				
Printing temperature	205 – 225		˚C	
Bed temperature	50 – 60		˚C	
Layer fan	40 – 60		%	
Material flow	100		%	
Layer height	≥ 0,2		mm	
Nozzle recommendations	≥ 0,4 (steel)		mm	
Print speed	20 – 30		mm/s	

SIZE	NET WEIGHT	GROSS WEIGHT	DIAMETER	COLOR	PACKAGING
M	750 g	975 g	1,75 mm/2,85 mm	Natural	Innovatefil Box

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