TECHNICAL DATA SHEET

VERSION 1.2
REVISION: 20/03/2023

INNOVATEFIL®

PP

INNOVATEFIL PP is a filament specially added to improve its adhesion to the printing surface. Versatile material, transparent, lightweight and recyclable. It also has excellent mechanical and chemical resistance that makes it ideal for any industrial application.

Food Approved

Impact resistance

Chemical resistance

Flexible

	VALUES		UNIT OF MEASUREMENT	STANDARD
PHYSICAL PROPERTIES				
Chemical name	Polypropylene			
Density	0,9		g/cm^3	ISO 1183
MECHANICAL PROPERTIES[1]	**XY PLANE**	**XZ PLANE**		
Tensile strength	15,3	12,6	MPa	ISO 527
Traction module	215,4	513,3	MPa	ISO 527
Flexion strength	16,5	15	MPa	ISO 178
Flexion module	392,8	392,8	MPa	ISO 178
Elongation at maximum effort	15,9	6,9	%	ISO 527
Stretch traction at break	479+	7,5	%	ISO 527
Elongation of flexion at break	15+	15+	%	ISO 178
Charpy Impact Force (non-notched)	103,5	16,4	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)	58		˚C	ISO 306
HDT B (0,45 MPa)	62		˚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		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, White, Black	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.