



Technical specification Everfil™ PP.B21

DESCRIPTION

Everfil™ PP.B21 is one of the most commonly used polymers in industry. It is characterized by high flexibility, incredible durability, low weight and resistance to chemicals. In addition, PP is a material resistant to stretching, thanks to which it is perfect for the production of components that require durability while maintaining flexibility. Polypropylene is a material from which, among others, bumpers and fenders are made. Polypropylene belongs to the group of recyclable materials, therefore printed elements and waste can be segregated together with other garbage and reprocessed.

Application:

- Automotive industry
- Engineering projects
- Toys
- Kitchen items
- Production of various types of housings
- Printing various kinds of food forms

TYPICAL PROPERTY VALUES

Filament	Nominal Value	Unit	Test Method
Filament diameter	1,75 , 2,85	mm	-
Diameter tolerance	+/- 0,02	mm	-
Spool weight	1,0 , 2,3 , 5,0	kg netto	-

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0,900	g/cm ³	ISO 1183
MFR	21	g/10 min	ISO 1133

Non-toxic and odorless

Clarity Not transparent

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	27,0	MPa	ISO 527-2
Tensile Strain (Yield)	8,0	%	ISO527-2
Flexural Modulus	1500	MPa	ISO 178

Charpy Notched Impact Strength			
-20°C	4,5		ISO 179
0 °C	5,0		
23°C	8,0		

Deflection Temperature Under Load			ISO 75-2B
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0,45 Mpa, Unannealed	100	°C	
Vicat Softening Temperature	151	°C	ISO 306/A





PRINT CONDITIONS

Everfil™ PP.B21

(may be different for different printers)

3D Printers	Typical Value	Unit
Extruder temperature	220-245	°C
Bed temperature (if needed)	Not required	°C
Printing speed	< 45	mm/s
Airflow	0-50	%
Closed chamber	Not required	
Substrate	Glass, PVA, glue	

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.

