

PC

Innovatefil Polycarbonate is an advanced filament with great impact resistance. It has high resistance to thermal deformation and very good dimensional stability. This material has been designed to be used in 3D printing, so shrinkage is minimal during use.

Some of its advantages are:

- Fairly high impact resistance.
- High strength and rigidity.
- High resistance to thermal deformation.
- Good chemical insulation properties.



Thermal resistance



Impact resistance



High industrial capacity

	VALUES		UNIT OF MEASUREMENT	STANDARD
PHYSICAL PROPERTIES				
Chemical Name	Polycarbonate			
Density	-		g/cm3	ISO 1183
MECHANICAL PROPERTIES ¹	XY PLANE	XZ PLANE		
Tensile strength	-	-	MPa	ISO 527
Traction Module	-	-	MPa	ISO 527
Flexural strength	-	-	MPa	ISO 178
Flexural modulus	-	-	MPa	ISO 178
Elongation at maximum effort	-	-	%	ISO 527
Tensile elongation at break	-	-	%	ISO 527
Flexural elongation at break	-	-	%	ISO 178
Charpy Impact Force (without notch)	-	-	kJ/m2	ISO 179
Hardness	-		Shore D	ISO 7619-1
THERMAL PROPERTIES				
Glass Transition Temperature (Tg)	146		°C	ISO 11357
VICAT B (50 N 50°C/h)	145		°C	ISO 306
HDT B (0.45 MPa)	-		°C	ISO 75
PRINT PROPERTIES				
Printing Temperature	270 – 290		°C	
Bed Temperature	110+		°C	
Print speed	30 – 50		mm/s	
Layer Fan	40 – 60		%	
Material Flow	100		%	
Layer Height	≥ 0,2		mm	
Nozzle Recommendations	≥ 0,4		mm	

SIZE	NET WEIGHT	GROSS WEIGHT	DIAMETERS	COLOR	PACKAGING
M	750 g	900 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 depends not only on the materials, but also on the design and printing conditions.