

## PVDF

Polyvinylidene fluoride is a material for highly technical industrial use with exceptional thermal and chemical resistance (resistance in acids, bases, salts, fats and oils), it also has great resistance to corrosion, is fireproof and has great hydrolytic stability.



Thermal resistance



Impact resistance



High industrial capacity



Flexible



Fireproof



Chemical resistance

	VALUES	UNIT OF MEASUREMENT	STANDARD
<b>PHYSICAL PROPERTIES</b>			
Chemical name	Polyvinylidene fluoride		
Density	1,78	g/cm <sup>3</sup>	ISO 1183
Melt rate flow	8 – 25	230 °C g/10 min	ASTM D1238
<b>MECHANICAL PROPERTIES <sup>1</sup></b>			
	XY PLANE	XZ PLANE	
Tensile strength	14	-	MPa
Tensile module	276	-	MPa
Flexural strength	14	-	MPa
Flexural module	276	-	MPa
Elongation at maximum effort	15	-	%
Tensile elongation at break	200	-	%
Bending elongation at break	-	-	%
Charpy Impact Strength (no notch)	-	-	kJ/m <sup>2</sup>
Hardness	-	-	Shore D
<b>THERMAL PROPERTIES</b>			
Glass transition temperature (T <sub>g</sub> )	138	°C	ISO 11357
VICAT B (50 N 50°C/h)	-	°C	ISO 306
HDT B (0,45 MPa)	-	°C	ISO 75
<b>PRINTING PROPERTIES</b>			
Printing temperature	220 – 260	°C	
Bed temperature	70 – 90	°C	
Print speed	20 – 30	mm/s	
Layer fan	80 – 100	%	
Material flow	100	%	
Layer height	≥ 0,2	mm	
Nozzle recommendations	≥ 0,4	mm	

SIZE	NET WEIGHT	GROSS WEIGHT	DIAMETER	COLOUR	PACKAGING
M	750 g	900 g	1,75 mm/2,85 mm	Natural, 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 the materials, the design and printing conditions are also important.