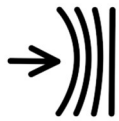


FLEX 98A

SMARTFIL® FLEX 98A is a thermoplastic polyurethane that has been additive to obtain a filament that allows printing flexible objects with a certain elasticity, being easier to print than other more common flexible filaments, since it has a higher hardness with respect to these, so it works with a wide range of printers of all kinds, such as direct extrusion or bowden.

For certain applications, such as objects subjected to great stress or vibration, it can be a very useful material, in addition, very good adhesion between layers and a high impact resistance.



Flexible



Impact resistance

	VALUES	UNIT OF MEASUREMENT	STANDARD
PHYSICAL PROPERTIES			
Chemical name	Polyurethane		
Density		g/cm ³	ASTM D792
MECHANICAL PROPERTIES¹			
	XY PLAN	ZX PLAN	
Tensile strength	-	-	MPa
Traction module	-	-	MPa
Flexion strength	-	-	MPa
Flexion module	-	-	MPa
Elongation at maximum effort	-	-	%
Charpy Impact Force (without notch)	-	-	kJ/m2
Hardness	98		Shore A
<small>⁽¹⁾ Values obtained on printed specimens, nozzle 0,4 mm, rectilinear infill 100%, layer height 0,2mm. For more information please contact us by email at info@smartmaterials.com or visit our website www.smartmaterials3d.com</small>			
THERMAL PROPERTIES			
Thermal deflection temperature	-	°C	ASTM E2092
PRINT PROPERTIES			
Printing temperature	220-240	°C	
Bed temperature	0-60	°C	
Layer fan	60-80	%	
Flow	100	%	
Layer height	≥ 0.1	mm	
Nozzle recommendations	≥ 0.2	mm	
Print speed	20-35	mm/s	

SIZE	NET WEIGHT	GROSS WEIGHT	DIAMETER	COLOR	PACKAGING
M	750g	975g	1.75mm/2.85mm	Several	ZIP Closing Bag

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