

BOUN

It is a completely compostable PLA-based filament, thanks to its low hardness slightly flexible parts can be printed. In addition, it stands out for providing a very soft touch in the printed piece reminiscent of materials made of rubber or latex.

Suitable for protective parts, grips or elements where it is necessary to protect from vibrations such as silentblock.



Biodegradable



Compostable

	VALUES	UNIT OF MEASUREMENT	STANDARD
PHYSICAL PROPERTIES			
Chemical composition	PLA compound		
Density	1,3	g/cm ³	ISO 1183
MECHANICAL PROPERTIES ¹			
	XY PLANE	XZ PLANE	
Tensile strength	8,4	2	MPa
Traction module	90,8	127	MPa
Flexion strength	8,5	4,4	MPa
Flexion module	239	191	MPa
Tensile elongation	150	1,4	%
Elongation at maximum effort	-	-	%
Elongation at flexion	-	-	%
Charpy Impact Force (notch, 23°C)	-	-	kJ/m ²
Hardness	55		Shore D
			ISO 527
			ISO 527
			ISO 178
			ISO 178
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			ISO 7619 - 1
¹⁾ Values obtained on printed specimens, nozzle 0,4 mm, rectilinear infill 100%, layer height 0,2 mm For more information contact us by email at info@smartmaterials.com or visit our website www.smartmaterials3d.com			
THERMAL PROPERTIES			
Glass transition temperature (Tg)	-	°C	ISO 11357
VICAT B (50 N 50°C/h)	-	°C	ISO 306
HDT B (0,45 MPa)	-	°C	ISO 75
PRINTING PROPERTIES			
Printing temperature	200 - 220	°C	
Bed temperature	0	°C	
Layer fan	50 - 80	%	
Print speed	25 - 35	mm/s	
Material flow	100	%	
Layer height	≥ 0,2	mm	
Nozzle recommendations	Brass	mm	

SIZE	NET WEIGHT	GROSS WEIGHT	DIAMETER	COLOR	PACKAGING
M	750 g	975 g	1,75 mm/2,85 mm	Various colors	SmartBag, security seal, desiccant bag.

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.