



DESCRIPTION

The novifil PLM-20 is a biosourced 3D filament, a **coproduct made of PLA and miscanthus fibers**, a plant which can depoluate the soils. With an **excellent module de traction**, it combines **mechanical strength, durability and ease of printing**. Ecological, it allows the creation of functional prototypes while reducing the environmental impact.

ORIGIN

Made in France

Miscanthus growing in
Seine-et-Marne (77)

PRINTING	SETTINGS	PACKAGING	CERTIFICATIONS
nozzle	0.60mm	500 g	RoHS
temperature	190-220°C	1.0 Kg	REACH
buildplate	60°C	2.5 Kg	UE n°10/2011
speed	50-100mm/s	5.0 Kg	FDA

PHYSICAL PROPERTIES	VALUE	METHOD
Density	1.20 g/cm³	ISO 1183-1

MECHANICAL PROPERTIES		
Tensile modulus	3 272 MPA	ISO 527
Breaking stress	54.9 MPA	ISO 527
Elongation at break	3.8 %	ISO 527
Flexural modulus	2 724 MPA	ISO 178
Charpy shock (notched)	3 KJ/m²	ISO 178-9

THERMAL PROPERTIES		
Melt Flow Index (MFI)	18.05 g/10min	ISO 1133
Glass transition	50 °C	DSC (10°C/min)
Melting temperature	152 °C	DSC (10°C/min)
VICAT (10N)	57.9 °C	ISO 306