

## **Technical data sheet**

Product name: AzureFilm 3D Wood Pine

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## Designation of product, preparation and manufacturer

Trade name: AzureFilm Wood Pine 1.75mm or 2.85mm diameter

Use of product: Biodegradable polymer compound suitable for 3D printing. The

biobased carbon content is > 75 % (calculated). Contains wood fibers.

Manufacturer: AzureFilm d.o.o.

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Mechanical properties			
Modulus of elasticity	2,900	[MPa]	ISO 527
Tensile strength	47	[MPa]	ISO 527
Tensile strain at tensile strength	5	[%]	ISO 527
Tensile stress at break	38	[MPa]	ISO 527
Tensile strain at break	6.5	[%]	ISO 527
Flexural modulus	2,950	[MPa]	ISO 178
Flexural strain at break	no break	[%]	ISO 178
Flexural stress at 3.5 % strain	64	[MPa]	ISO 178
Notched impact strength (Charpy), RT	4.4	[kJ/m²]	ISO 179-1/1 eA
Impact Strength (Charpy), RT	21	[kJ/m²]	ISO 179-1/1 eU

The values listed have been established on standardized test specimens (DIN EN ISO 3167, type A) at standard temperature and humidity conditions.

Physical properties			
Melt flow rate (190 °C/2.16 kg) Melt volume rate (190 °C/2.16 kg)	2.5 - 4.5 2.2 - 4.0	[g/10 min] [cm³/10 min]	ISO 1133 ISO 1133
Melting temperature	> 155	[°C]	ISO 3146-C
Density	n/a	[g/cm³]	ISO 1183

## **Printing Recommendations:**

Nozzle temperature: 200 – 230 °C Heated bed: recommended 0-60 °C

Print speed: 30 - 100 mm/s

Build platform: Blue tape, Kapton tape. Recommended: Glass bed + spray 3D Lac 400ml

We recomended also to use nozzle 0,6mm and 0,15 to 0,20mm layer height

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