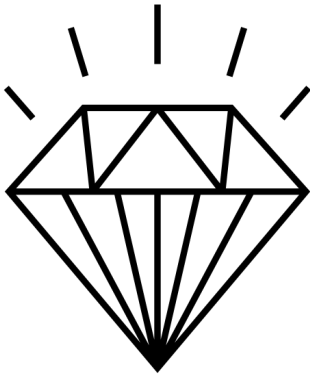


PA11 Pure White

FABULOUS
MATERIALS

PA11 PURE WHITE is a fine powder based on polyamide 11 (thermoplastic) especially formulated to function on powder bed systems by laser sintering (SLS). It enables to obtain productions of models and functional parts in "plastic engineering" with long cycle of life and excellent chemical resistance.



PA11 Pure White

Typical features :

- Designed for SLS 3D printers with fiber laser, including desktop SLS printers.
- Optical whitener.
- Bio-sourced grade.

Applications examples :

- ➔ Eyeframes.
- ➔ Perfect for dyeing.
- ➔ Laser markable.

Refresh rate :

50 %
recommended

Key Points :

- Desktop & compact SLS + CO2 laser compatible.
- High ductility, Better elongation Vs. PA12.



MADE IN



General Properties :

Chemical Nature of the Preparation :

POLYAMIDE 11, Presence of additives

Physical State (20°C) and Color :

Solid (powder) Natural Grade : white

Average Particle Size :

Grain Size :

Grain Size :

Grain Size :

Diffraction laser :

D10

D50

D90

45 < _ < 60 µm

35 µm

45 µm

70 µm

Powder packed Density 23 ° C :

Part Density :

23°C Moisture absorption 24 hrs :

Method FABULOUS :

Method FABULOUS :

ASTDM D570

0,55 +/- 0,05 g/cm³

1,04 +/- 0,05 g/cm³

1,12 +/- 0,05 %

Mechanical Properties :

Young Modulus*

ISO 527

> 1655 MPa

Flexural Modulus*

ISO 178

> 1500 MPa

Tensile strength (Average XY)*

ISO 527

48 +/- 3 MPa

Tensile strength (Average Z)*

ISO 527

36 +/- 5 MPa

Elongation at break (Average XY)*

ISO 527

23 +/- 6 %

Elongation at break (Average Z)*

ISO 527

7 +/- 4 %

Charpy – Impact strength*

ISO 179 (20°C)

NO BREAK dry/Cond.24 hrs KJ/m²

*statistics after several cycles.

50 cond. 24 hrs

The mechanical properties can vary according to the positioning of the tensile bars, operating conditions and exposure parameters of the systems used. These data rest on the current state of our knowledge. They do not give the exact characteristics of material and does not represent a guarantee.

PA11 Pure White

FABULOUS
M A T E R I A L S

Thermal Properties :

T°f Melting Point : T° Process : According to machine Reading :	DSC Check on Fuse 1+	196 < _ < 204 °C (ex : 193 °C +/-2)
Flammability – Fire Classification UL-94 following ASTM D618(ISO 921) with a barrel 125 x 13 x 13 mm	UL94 vertical & Horizontal test	Natural grade: HC Out Classification

Electrical Properties :

According to the value reach in CEI 93 the material is considered as : **ISOLANT**

Volume resistivity Horizontal surface Voluminal resistivity Vertical surface Voluminal resistivity	CEI 93 CEI 93 CEI 93	1.3 E+13 Ohms/m 1.2 E+15 Ohms 1.5 E+15 Ohms
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Surface Finish :

Natural Coloration : Shore D Hardness : Surface Ra/ Upper Facing processed & blasting : Surface Ra/ Upper Facing after Finishing :	Visual ISO 868 (20°C) ISO 4287 ISO 4287	White 80 +/- 2 Shore D 10 +/- 2 µm 6 +/- 1 µm
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Chemical Properties :

Matrix in Polyamide 11 with a good chemical resistance to alkaline, hydrocarbons, oils, gasoline's, gas oil and solvents.
Attack by the acids. Sealing of wall starting from 2.5 mm thickness.

SOLUBILITY : WATER : Solvents : Odor : pH:	Insoluble in Water on the basis of its structure at 20 °C < 1 mg/m3 (estimated) Soluble in :Mineral acids, Phenols Insoluble in most organic solvents Insoluble in : Chlorinated solvents, Alkaline conditions None NA
Melting Point / Range : Decomposition Temperature : Explosive Properties : Explosive Limits :	> 180 °C Polymer: > 350 °C Dust may form explosive mixture in air (30 - 60 g/m3) Test of dust behavior in explosions : Kst = 200 - 250 m.bar/s CARE / 301 m.bar/s Explosibility class : St2 CARE. Standard : ISO 6184/1 - ASTM E 1226 Lower : in air 30 - 60 g/m3 Higher : In air Approximately 200 g/m3 (estimated)

Data Sheet_PA11 Pure White_ April 2026