

PA12- L 1600

Polyamide 12

powder for Laser Sintering



The PA12- L1600 is characterized by its excellent mechanical properties and a high elongation at break. This material is easy to process, presents a low water absorption and a good recyclability.

The PA12-L1600 meets the high expectations of the **manufacture functional prototypes and end-use parts with high mechanical properties and toughness**. It is also suitable for complex production and prototype plastic parts in the automotive or aerospace industry.

The PA12-L1600 can be processed with any ProMaker P series printers.



KEY FEATURES & BENEFITS

- Excellent mechanical properties
- Good part surface ease of post-processing
- Low water absorption



TYPICAL APPLICATIONS

- Functional prototypes and end-use parts with high mechanical properties and toughness
- Alternative for complex spare parts production
- Multi-purpose industrial applications

MATERIAL PROPERTIES

	TEST METHOD	VALUE
Base material		Polyamide 12
Appearance		White
Bulk density [g/cm ³]	Prodways Method	0.48
Sintered part density [g/cm ³]	Prodways Method	0.95
Average particle size (µm)	Laser diffraction	60
Melting point [°C]	ISO 11357-3	179 - 187

MECHANICAL PROPERTIES*

	TEST METHOD	VALUE
Tensile strength [MPa]	ISO 527	40 - 45
Young modulus [MPa]	ISO 527	1450 - 1600
Tensile elongation at break [%]	ISO 527	30 - 36
Flexural modulus (MPa)	ISO 178	1200 - 1300
HDT/A (1.8 MPa) [°C]	ISO 75	83,5

* Performance characteristics may change according to product application, operating conditions or level of refresh.