



PA12- SF 1800

Polyamide 12

powder for Laser Sintering

Experience exceptional surface finish with our Titanium dioxide-free PA12-SF1800 material. With excellent mechanical properties, high elongation at break, low water absorption, and good recyclability, it is a versatile material suitable for complex plastic parts in various industries including automotive, aerospace or consumers goods.

Designed for high expectations, it creates durable end-users parts that can withstand harsh environments and high stress conditions. Rely on the PA12-SF1800 to prototype new products or produce complex parts for your production line.

The PA12-SF1800 can be processed with ProMaker P1000X and P1000S 3D printers.



KEY FEATURES & BENEFITS

- Exceptional part surface finish
- Titanium dioxide-free composition
- Robust mechanical strength
- Suited for printing complex parts with intricate geometries and fine details
- Low moisture absorption



TYPICAL APPLICATIONS

- Ideal for applications where aesthetics and visual appeal are important
- 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		Ivory
Bulk density [g/cm ³]	ISO 1068-1975	0,55
Sintered part density [g/cm ³]	ISO 1068-1975	0,95
Average particle size (µm)	Laser diffraction	42
Melting interval [°C]	ISO 11357-3	179 - 187

MECHANICAL PROPERTIES*

	TEST METHOD	VALUE
Tensile strength [MPa]	ISO 527	42 - 45
Young modulus [MPa]	ISO 527	1700-1800 (XY) 1400-1600 (XZ)
Tensile elongation at break [%]	ISO 527	20
Flexural modulus (MPa)	ISO 178	1500
HDT/A (1.8 MPa) [°C]	ISO 75	76

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