

Perform✓A12

Technical Data Sheet

- Perform✓A12 is a high performance Polyamide 12 (Nylon 12) filament designed to work on FFF printers for the realization of functional parts.
- Perform✓A12 has excellent chemical resistance, toughness and other great functional properties like stiffness, and durability.

Typical Properties

Property	Test Method	Unit	Typ. Value
Nominal Diameter	-	mm	1.75 / 2.85
Density	ISO 1183	gr/cm3	1.01
Tensile Modulus	ISO 527	MPa	1530
Tensile Strength	ISO 527	MPa	44
Flexural Strength	ISO 178	MPa	58
N. Izod Impact	ASTM D256	J/m	108
Elongation	ISO 527	%	>100%
HDT @ 0.45 MPa	ISO 75	°C	120

* The above are typical properties for a printed specimen

Recommended Settings

Parameter	Unit	Set Value
Nozzle Temp.	°C	270-295
Plate Temp.	°C	90-110
Cooling	-	On, low
Print Speed	mm/sec	30-80
Retraction (Bowden)	mm	>7
Retraction (Direct)	mm	1.5±0.5
Drying	°C, hr	80, 4

- Perform✓A12 adheres well when using PEI surface, PA adhesive or Kapton Tape on a heated glass plate.