

February 24th, 2021

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
Impact Strength IZOD (Notched)	ASTM D 256	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	mm	>7
Drying	°C , hr	80, 4

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

Disclaimer:

Typical properties and recommendations should be regarded as guideline values and not specifications. It is on the user responsibility to carefully evaluate the suitability of the material and its properties to the application