

TRADE NAME:	<b>Fiberlogy Nylon PA12</b>
MANUFACTURER:	Fiberlab S.A., Brzezcie 387, 32-014 Brzezcie, Poland
DESCRIPTION:	<b>Nylon PA12</b> filament designed for printing in FFF/FDM technology, available in different colors, wound on a spool, vacuum-packed in a plastic bag, placed in a cardboard box.

**TECHNICAL INFORMATION:**

Diameter:	1.75 mm
Diameter Tolerance:	+/- 0.02 mm
Avg Roundness:	+ 0.01 mm
Net Weight:	0.75 kg
Print Temperature:	255°C - 270°C
Bed Temperature:	100°C



Physical Properties	Test Method	Unit	Typical Value
Specific Density	ISO 1183	g/cm <sup>3</sup>	1.01
Mechanical Properties	Test Method	Unit	Typical Value
Tensile Strength @ Yield	ISO 527	MPa	45
Tensile Strength @ Break	ISO 527	MPa	51
Tensile Modulus	ISO 527	MPa	1400
Elongation @ Yield	ISO 527	%	5
Elongation @ Break	ISO 527	%	>200
Flexural Strength	ISO 178	MPa	-
Flexural Modulus	ISO 178	MPa	1150
Izod Impact Strength (Notched) @ 23°C	ISO 180	kJ/m <sup>2</sup>	12
Thermal Properties	Test Method	Unit	Typical Value
Heat Distortion Temperature @ 0.45 MPa	ISO 75	°C	135
Heat Distortion Temperature @ 1.8 MPa	ISO 75	°C	55
Vicat Softening Temperature	ISO 306	°C	145
Glass Transition Temperature T <sub>g</sub>	DSC	°C	-
Melting Temperature T <sub>m</sub>	DSC	°C	178
Continuous Use Temperature (UL Yellow Card)	UL 746	°C	65

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