

TRADE NAME:	Fiberlogy IMPACT PLA
MANUFACTURER:	Fiberlab S.A., Brzezcie 387, 32-014 Brzezcie, Poland
DESCRIPTION:	IMPACT PLA 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:	0.85 kg
Print Temperature:	220°C - 245°C
Bed Temperature:	50°C - 70°C



Physical Properties	Test Method	Unit	Typical Value
Specific Gravity	ISO 1183	g/cm ³	1.18
Mechanical Properties	Test Method	Unit	Typical Value
Tensile Strength @ Yield	ISO 527	MPa	44
Tensile Strength @ Break	ISO 527	MPa	40
Tensile Modulus	ISO 527	MPa	2350
Elongation @ Yield	ISO 527	%	-
Elongation @ Break	ISO 527	%	10
Flexural Strength	ISO 178	MPa	70
Flexural Modulus	ISO 178	MPa	2400
Izod Impact Strength (Notched) @ 23°C	ISO 180	kJ/m ²	18
Thermal Properties	Test Method	Unit	Typical Value
Heat Distortion Temperature @ 0.45 MPa	ISO 75	°C	75 - 85 (annealing)
Heat Distortion Temperature @ 1.8 MPa	ISO 75	°C	-
Vicat Softening Temperature	ISO 306	°C	-
Glass Transition Temperature T _g	DSC	°C	55 - 60
Melting Temperature T _m	DSC	°C	165 - 180
Continuous Use Temperature (UL Yellow Card)	UL 746	°C	-

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