

TRADE NAME:	Fiberlogy IMPACT PLA
MANUFACTURER:	Fiberlab S.A., Brzezie 387, 32-014 Brzezie, 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 Density	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	-

The information set forth herein has been gathered from standard reference materials and/or supplier test data. To the best knowledge and belief of Fiberlab S.A. they are accurate and reliable. Information is offered only for your consideration, investigation and verification. Fiberlab S.A. makes no warranties, expressed or implied, with respect to the use of such information or the use of the specific material identified herein combination with any other material or process, and assumes no responsibility therefore.

Last update: January 21, 2022