

Technical Data Sheet

Chemical Name:

Enhanced Polylactic Acid

Main Applications:

Concept modeling, Educational projects, Design objects, Ideal for prototypes and functional parts.

Description:

KODAK PLA Tough is as easy to print as regular PLA with a 9 times higher impact resistance. It has been manufactured with the highest grade of Ingeo™ certified resins for industrial applications. It provides excellent 3D printing characteristics, such as precise detail, good adhesion to build plates and low warping, curling and odor.

Key Aspects:

Our filament has passed a defined set of tests to assure the highest quality and thus reliable and repeatable printing performance. Furthermore, this polymer is formulated to crystallize when annealed post-printing to improve its thermal performance and further enhance its impact properties.

Diameter:

1.75 mm, 2.85 mm

Meters per 750 g:

308.726 / 116.402

Weight:

750 g

Weight per meters:

2.43 / 6.44 g

Density:

1.01

Meters per kg:

411.634 / 115.202

Color Information:

Color:

Black
Natural
White

PANTONE:

6C
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11-4001

Printing Settings

Printing Temperature	200-220 °C
Density (g/cc)	1.22
Build Plate Temperature	Optional 50-70 °C
Cooling Fans	YES, Except 1st layer
Annealing Temperature	110-120 °C

Physical Properties

3D870

ASTM Method

Tensile Strength	1.22	D 792
Tensile Modulus	9-15	D 1238
Flexural Strength	165-180	D 3418
Flexural Modulus	55-60	D 3418

Mechanical Properties

XY AXIS

YX AXIS

ZX AXIS

ASTM Method

Tensile Strength	5.802	4.641	3.481	D 638
Tensile Modulus	416	355	359	D 638
Flexural Strength	10.588	7.106	6.672	D 790
Flexural Modulus	350	287	341	D 790
Notchez Izod Impact (amorph.)	2.99	2.26	2.04	D 256
Notchez Izod Impact (cryst.)	4.37	3.74	1.19	D 256
Heat Distortion Temperature	--	75-85	--	E 2092



Warning:

This product can expose you to chemicals, which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov

Disclaimer:

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