

# CREALITY

## *PLA filament (Polylactic acid or polylactide)*



Το PLA (πολυγαλακτικό οξύ ή πολυλακτίδιο) είναι ένα σκληρό θερμοπλαστικό, κατασκευασμένο από ανανεώσιμες πηγές (κυρίως άμυλο καλαμποκιού).

Το νήμα PLA έχει χαμηλή συρρίκνωση και σχετικά χαμηλή θερμοκρασία τήξης 175° C. Είναι ένα εύκολο υλικό για επεξεργασία, καθώς και για συνδυασμούς διαφόρων ενώσεων.

*Το PLA αποτελεί το πιο δημοφιλές υλικό 3D εκτυπώσεων!*

*Τα PLA Filament είναι συμβατά με σχεδόν όλους τους 3D εκτυπωτές!*

CR-PLA printing filament

## Product Parameter

The filament thread head can be fixed in the hole of filament wheel.

The filament wheel can be hung on the printer.

The filament has bright color, consistent diameter and great flexibility.



The filament wheel is neither too hard, nor too soft, smooth and gentle to touch

Material	CR-PLA	ABS
Nozzle Temperature	195–210°C	215–245°C
Density	1.25±0.05g/cm <sup>3</sup>	1.02±0.02
Melt flow rate	5–7g/10min(190°C,2.16kg)	30g±1.2g/10min (200°C,5kg)
Water absorbency	0.5%	≤0.25%
Tensile strength	≥60MPa	≥45.2±1.4MPa
Bending modulus	≥60MPa	≥2388±230MPa
Breaking elongation	≥3.0%	≥35.3%±3.4%
Filament diameter	3mm/1.75mm	3mm/1.75mm
Bubble	100% No bubbles	≥100% No bubbles
N.W.	1kg ( Filament Length 340m)	1kg
Size of filament wheel	Diameter 200mm, height 66mm, hole diameter 56mm	Diameter 200mm, height 66mm, hole diameter 56mm
Temperature of hot bed	45–55°C	≥90°C

P L A F I L A M E N T S

# FLOWING ART CR-PLA PRINTING FILAMENT MAKES 3D PRINTING BETTER

Pursue the green printing with better quality

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Tolerance  $\pm 0.2\text{mm}$



No bubbles



No warping



Good flow

CR-PLA PRINTING FILAMENT

# Multiple Colors of Filament Give You More Choices

Always a color for you

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Blue



Green



Red



Orange



Yellow



Pink



White



Transparent color



Black



Flesh color



Golden



Brown



Gray



Purple



Fluorescein yellow



Fluorescein red



Fluorescein orange



Fluorescein green

More colors to explore.....

CR-PLA printing filament

# High Purity And Green Raw Material

No waste and recycled material, no blockage and sufficient extrusion

Residues in the case of fire and there will be an explosion, similar with the carbon fiber of the straw using the natural fiber. The residues that are not used are given to the local government. The local government will be responsible for the treatment of the residues. The residues that are not used are given to the local government. The local government will be responsible for the treatment of the residues.

# E F C O



Health, green, non-toxic and nuisanceless



CR-PLA printing filament

## Small Tolerance of Filament Diameter, Better Printing

The tolerance of filament diameter is within  $\pm 0.2\text{mm}$ , with better printing and higher precision



CR-PLA printing filament

# Good Tensile Strength High Quality and Great Flexibility

Good tensile strength, good ductility, good flow,  
low shrinkage, good flexible and low weight

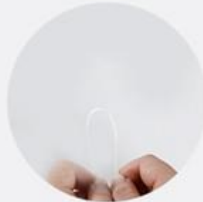
Resistant to flexion of more than 90° (without an external support) at the upper limit of the filament's bending force (without breaking).  
The filament does not break or deform. The filament's shape of being flexible, ductile and lightweight is maintained.



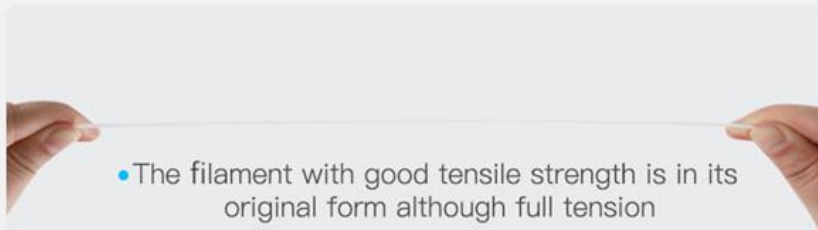
- Slightly fold: unchanged



- Half fold: unchanged



- Complete fold: unchanged



- The filament with good tensile strength is in its original form although full tension

TOUGHNESS

CR-PLA printing filament

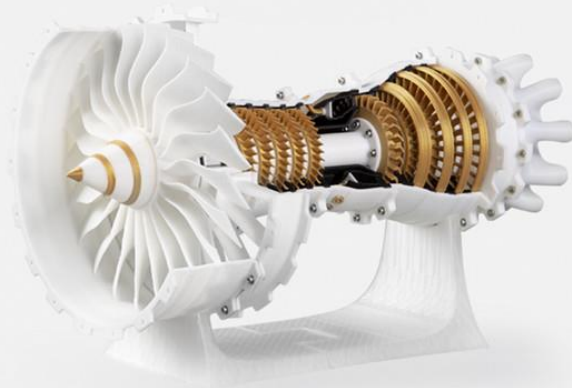
# No Warping Better Printing

The printed model with no warping and bubbles has fine surface and color accuracy

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Robot



Turbine





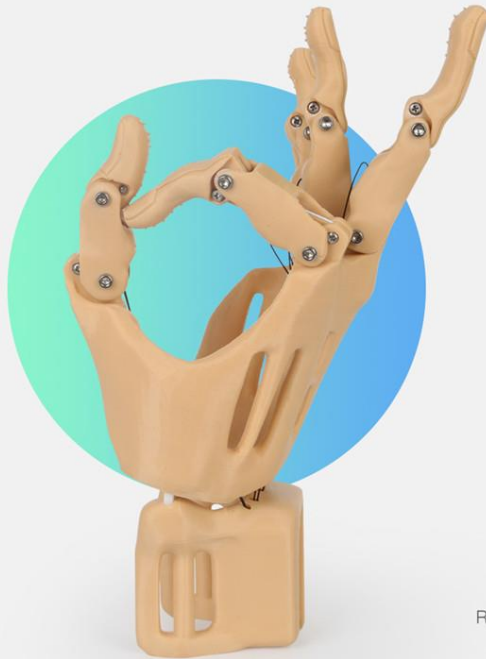
CR-PLA printing filament

# Model Display

MODEL



Eagle Head



Robot-hand

CR-PLA printing filament

## Product Display

PRODUCT



# CREALITY

Creality is a leading 3D printer manufacturer dedicated to developing the FDM/resin 3D printer, 3D printer filament, and maker related products. Subscribe to learn more.