All about digital fabrication and 3DPrinting. Build your 3DPrinter, learn, design and share you experiments. Read up on news, views, and social networking in the world of 3DPrinting.

WillowFlex 3D printing filament to lead Organic Material Evolution

Posted: 14 days ago on http://www.prsnlz.me

Share: Report

A new organic 3D printing material has landed on Kickstarter in the hope of being the next step towards the "Organic Material Evolution".

WillowFlex is a flexible bioplastic filament made from non-GMO corn starch and raw compostable materials that have passed both U.S. and E.U. standards which state the material can be recycled through the composting of organic solid waste.

According to the Kickstarter campaign, the filament has been created with safety for both humans and the environment in mind and is ideal for use in sensitive environments such as schools, homes and medical.

WillowFlex can perform at temperatures in excess of 100°C and can also maintain flexibility at -15°C. It also claims to produce very little smell but users might experience a slight natural aroma of baking bread. The filament is available in 10 colours which so far include natural, olive green, deep blue, lilac and rose red.

The material's biocompatibility means that over time under certain conditions, products will return to the earth without any harmful effects. Despite the material's super-green capabilities, backers need not worry about their 3D printed parts decomposing at will and whilst WillowFlex remains in beta mode, the team is currently running a series of tests to see how the material responds in various conditions.

The material is a result of a collaboration between Berlin-based organic materials company BioInspiration; Kansa USA-based bioscience social enterprise Green Dot; and 3D printing filament developer, 3d-k.berlin. WillowFlex is just the first in a series of products being developed by BioInspiration and its partners and tests are currently underway for a non-elastic compostable filament that's set to be on the market later this year.

Green Dot CEO, Mark Remmert told TCT: "When materials for 3D printing offer better performance and a lighter environmental footprint, it's a win for makers and the environment."

There are still 13 days left to back the campaign and with the €8,450 target already achieved, supporters can still get their hands on a spool of WillowFlex from €26. The goal is to have the material out on the market in late Autumn.

BioInspiration is the latest company looking at the use of sustainable plastics in 3D printing. Back in May, Dan met with Algix, a Mississippi -based clean technology that has teamed up with 3D Fuel to create Algae Fuel PLA, a PLA with a 20% algae biomass. Similarly, 3Dom USA recently introduced a first of its kind Eco-Spool made from 100% bio-based materials designed specifically for environmental sustainability and to tackle the growing concern for the mass of disregarded filament spools.

Comment Wall

Go on, have your say!!!, tell the world what you think about this, add to the conversation, get the blood flowing. Add your comment now. .

Add your comment here...

Tell us about yourself

Your name:

Email Address:

Your Webpage:

Using a CAPTCHA to prove you're not a script

Please prove you're a real person and not a computer program up to no good, enter the

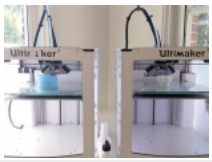
5284 more in News Articles

Related News Articles

Could wood-based material lead 2014 3D printing priorities?

Dec.23, 2013 Usually when we think of materials that can be

Artist Martijn Hage creates gorgeous 9-piece 3D printed Hortus Filamentus artwork



Aug 10, 2015 By Alec While some critics have claimed the opposite at

The Warp/Weft filament colorizer adds custom color designs to 3d printed surfaces

July 19, 2015 By Simon When it comes to finding new ways of

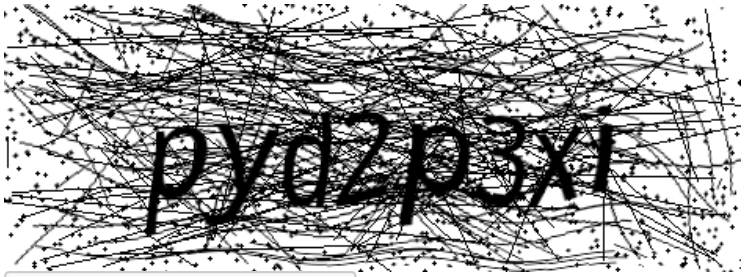
Custom 3D printed footwear FOOTPRINT to debut at GDS Fair in Germany next week

July 22, 2015 By Alec A number of 3D printing startups are racing towards the release of the worlds first commercial viable 3D printed shoes, but it is beginning to look like one very promising project by two Philadelphia University

text you see..

The words you enter need not have the same uppercase/lowercase as the images shown, the system ignores case.

Enter the text you see in the box below the image

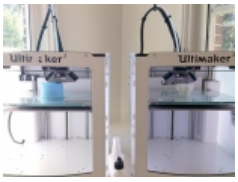


Post Comment

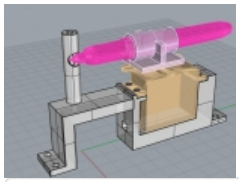
Related News articles

Could wood-based material lead 2014 3D printing

Artist Martijn Hage creates gorgeous 9-piece 3D printed



The Warp/Weft filament colorizer adds custom color



Tags

City

- Berlin

Country

- United States

Industry

- sustainable plastics
- organic 3D printing
- 3D printing filament
- clean technology
- 3D printing filament developer
- 3D printing

Other

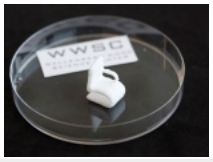
- 3d print
- filament

is taking the lead. Project FOOTPRINT by Matt Flail and Tim Ganter, which has develop ...

Highlights of the 3D Printshow Paris

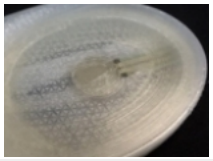
During last weekend (17 18 October 2014), we had the distinct

Soft organic electronics on the horizon with 3D printed wood compound



For the first time, scientists have successfully 3D printed objects

MarkForged's 3D Printed Insoles Make Feet Comfortably Smart with Embedded Electronics



What only a few months ago was just a wonderful yet unattainable

Home Metal 3D Printer: The Mini Metal Maker

The Mini Metal Maker does add a new capacity for the home maker, DIY inventor, artist or individual liking the idea of being able to download free objects to have materialisec in metal before their eyes. The developmer of this Mini Metal Maker now conceivably means that 3D printing

umans

metal gears, miniature mechanisms, h ...

3D Printer based on Makerbot Replicator 2 extruders 2kg ABS dual-nozzle

Published date 2015-05-21

(adsbygoogl = window.ads [1]).push();

World Famous XYZprinting 3D Printer

Published date 2015-05-13

World Famous XYZprinting 3D Printer

(adsbygoogl = window.ads [1]).push();

Hot Topics

- 3d print
- 3d scan
- 3d systems
- 3d-print
- abs
- bio-print
- cura
- dual extruder
- extruder
- filament
- heat bed
- heated bed
- j-head
- ord solutions
- power supplies
- power supply
- printed circuit
- printrbot go
- printrbot simple
- t-glass

About Microfabricator.com

Microfabricator.com is a social network, news aggregator and classified advertising service, tailored for the 3DPrinting and digital fabrication community.

We reach out and gather the best 3DPrinting news articles, information and briefings from around the web and bring them all here for you. Use our sophisticated search tool to home in on the subjects and topics that interest you the most.

We also operate a free to use for private advertisers 3DPrinting focused classified ads service, you can buy and sell, 3DPrinters and 3DPrinter parts, 3DPrinting filaments, or just sell items you yourself have printed..

Facebook Twitter