

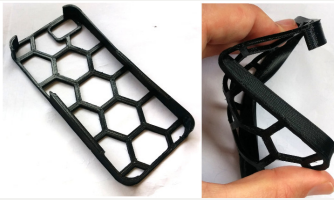


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Located in The Netherlands

*- One to replicate them all -*

## Electronics - Mechanical - Filaments

Welcome to our fifth newsletter! It's business as usual at RRW.com HQ, very busy. I feel I don't have the time to make the newsletter as good as I would like it to be, therefore I have decided to do a monthly newsletter instead of a bi-weekly. Also some good news, we are finally ready to start producing Dutch ABS in great volumes. So expect new colors and 3mm diameter to come soon. If you have feedback regarding the newsletter or you like to share your own news that is interesting for our audience, please feel free to drop a email at: [info@reprapworld.com](mailto:info@reprapworld.com).



One of the cool filaments we have is the Dutch Flex filament. We have two variations: flex 65 and flex 45, where 45 is much more flexible at 65. 45 is rubber like, while 65 is a bit tougher. The picture on the left shows the iPhone 5 soft protection case I printed in flex 45. You can see how bendable it is, while keeping the original

shape. It is also very strong and has great layer bonding.

It's a bit harder to print with than PLA though. The temperature needs to be around 210, I used 60 degrees for heated bed using 3DLAC. The first prints the case would come off the bed as the print doesn't have much surface to stick to the glass. So I used a brim to force it in place. But most important is to reduce the speed of the print and make sure the extruder doesn't block. The flex is so bendable, that it will slip out of your extruder on the side. I am pretty sure that using a bowden system printing would be near impossible, but I would like to hear someone who managed to do it.

So what can we print with this stuff except phone cases? Well maybe tires for your RC car. Anything rubbery should be done with this.

### Printing optical lenses

An engineer named Craig Broady has printed a small magnifying glass to zoom in on items. The lens was quite the project he had to print in microns. This might be revolutionary for people with glasses for example.

### HP is working on a glass 3D printer

HP is developing a printer which can print on objects that are already in mass production. Whitman says HP wants to lead in the 3D market.

### A Raspberry Pi 3d printed laptop

Soon we will all be able to control our 3D printer with a 3D printed laptop powered by raspberry pi. Soon it will be possible to print the parts of this laptop and all you have to do is add the raspberry pi with the keyboard and Mouse pad and you're ready to go!

### First Russian Bioprinter to be released in mid october

There hasn't been much revealed from this printer not even the name. What we do know is that it should be able to print meat and leather, but also even working blood vessels.

## What's new?



### Fluorescent Green/orange

This is our [fluorescent PLA](#). It is very bright in daylight and gives a cool effect with blacklight. Current colors include green and orange, but yellow is coming soon.



### E3D hotend

We already had the [E3D hotend](#), but we now carry a lot of spares/add-ons too!

## Highlights



### **Power relay v1.0 DIY kit**

Our [Power relay v1.0 DIY kit](#) enables you to switch high currents (15A max) using a relay, as many 3D printer electronics is not able to provide these current safely. This is a Do It Yourself (DIY) kit, please read the assembly guide.



### **Screw driver - Hex - 1.5mm**

For everything using a grub screw: [Screw driver](#). Used for grub screws in driver gears, pulleys, z-axis couplings etc.

\* Prices are exluding VAT and subject to change without notice