

Sculpteo Press Release/CES Las Vegas 2016

Las Vegas, January 6, 2016

**Sculpteo @CES** / Stand 72735 Tech West, Sands Expo, Level 2, Halls A-C and Venetian, Level 2, Meeting Rooms

## 3D Printing: Sculpteo launches the world's most flexible TPU for 3D printing

*Sculpteo unveils a new material designed for additive fabrication with a level of flexibility that surpasses all other TPUs for laser sintering. This new flexible plastic can reproduce the rigidity and flexibility of human organs, the performance of vehicle tires, and the delicacy required by the textile industry.*



**LAS VEGAS, January 6, 2016 - Sculpteo, the leading force in online 3D printing, unveils a completely new Flexible Plastic material developed exclusively for 3D printing, delivering a level of flexibility never before seen in the laser sintering 3D printing process. Exclusive to Sculpteo, this special material is a thermoplastic polyurethane (TPU) that makes it possible to create functional objects with a Shore hardness level of 65A, and therefore to reproduce complex mechanical properties.**

It is now possible to 3D print a functional and truly soft object. Created using laser sintering technology, Flexible Plastic components combine freedom of design with a Shore hardness level of 65A, which is well below the market standard for 3D printing (the Shore hardness scale is used to measure the hardness/softness of elastomers). This new material has many revolutionary applications: At CES in Las Vegas, Sculpteo is showcasing three uses in sectors as diverse as health, mobility and textiles.

Sculpteo co-founder Clément Moreau: *"This new type of material puts 3D printing at the same level as traditional production methods by - finally - making it possible to create soft, flexible objects that are truly functional rather than simply prototypes. We are enthusiastic about the first applications conceived by our clients using this completely new material. From medical applications to the world of textiles, we are committed to working alongside the industry leaders of today and tomorrow."*

The Sculpteo stand showcases applications of this new material for the first time anywhere in the world:



### **Helping surgical procedures with high-performance medical learning tools**

The flexibility and strength of TPU make it possible to recreate human organs to provide surgeons with a realistic teaching material on which to train before carrying out surgical procedures. Sculpteo has already 3D printed a human heart that mimics as closely as possible all the mechanical properties of the real thing.

### **Reinventing textile design**

Sculpteo is working with young designer and ESMOD graduate Anastasia Ruiz, who has worked on integrating 3D printing into everyday fashion in her 'Virus' collection.

Rather than seeking to replace fabric, Anastasia Ruiz has used 3D printing as an additional material for her designs to bring a new level of accessibility to 3D-printed clothing to ensure that it is no longer the exclusive privilege of runway fashion models. [Click here to watch the video](#)

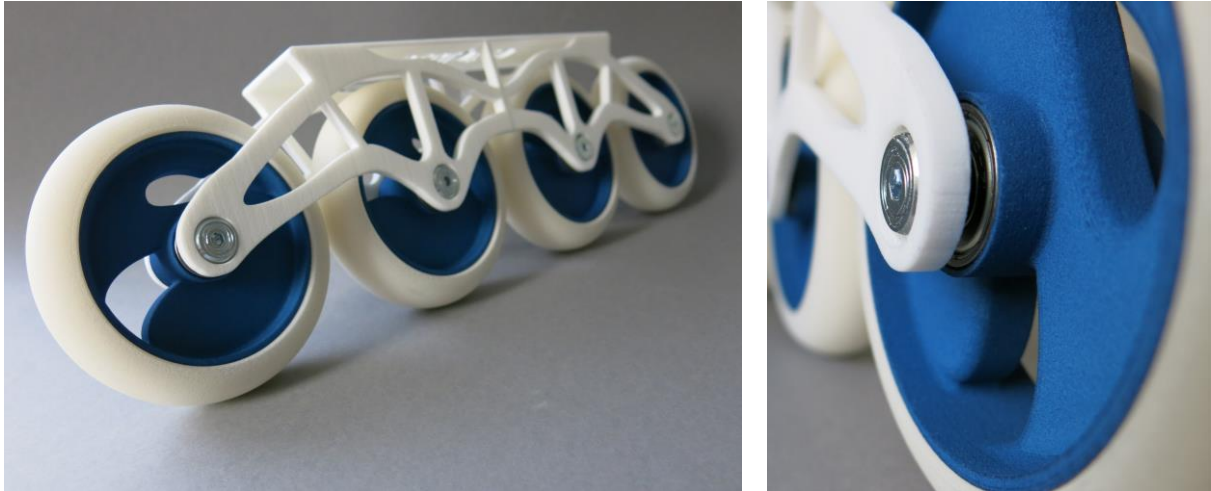
Industry professionals like Italian designer Alvise Rizzo and Moritz Waldemeyer, famous for his use of LEDs in fashion, have also been working with Sculpteo on the design of a connected skirt in 3D-printed fur. Once again, this totally unique innovation has been created by laser sintering technology.



Photo credits : Louanne Coré

## Developing technical support resources for cutting-edge industries

From the shoes on our feet to the tires on our cars, the new TPU material offered by Sculpteo makes it possible to recreate the key properties of highly technical products at the development stage, even to the point of allowing leading brands to consider the production of custom components like shoe soles or small-diameter wheels for use on the most demanding terrain. It's the stuff of dreams!



### About Sculpteo :

Sculpteo is an online 3D printing service based in San Francisco and Paris. They offer on-demand 3D printing of individual products as well as short-run manufacturing. They have 45 materials, colours and finishes available, plus superior file analysis and repair. Their factories use only professional printers and provide fast turnaround with worldwide delivery. Sculpteo was founded in 2009 by Eric Carreel and Clément Moreau.

For more information visit: [www.sculpteo.com](http://www.sculpteo.com)

And for a factory tour in video, [click here](#) to watch the rock'n'roll version

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