



DYEMANSION ENABLES TRUE FREEDOM OF DESIGN BY LAUNCHING THE BIGGEST COLOR VARIETY FOR 3D-PRINTED PARTS

The new colors cover the entire RAL color range for laser sintered parts and are showcased on the DyeMansion booth V36 at this year's TCT show for the first time. And that's just the start. Soon the RAL color range will also be available for white HP Multi Jet Fusion parts of the 500/300 series.



25.09.2018 Birmingham - Through the standardization of colors and the possibility to reproduce them with a stabilized process, DyeMansion has reached an important milestone and raises the quality of laser sintered parts to the next level. From now on, Freedom of Design isn't just the free choice of any geometry, but also the

possibility of an absolute diversity of colors. And that's just the start. Soon the RAL color range will also be available for HP Multi Jet Fusion parts of the 500/300 series.

"From the very beginning it was always a goal for us to offer standardized colors. The whole RAL palette was quite a challenge to develop, this is why we are more than happy to finally offer it to all our customers and to set a new standard for high-volume AM applications", says Felix Ewald, CEO & co-founder of DyeMansion.

The new RAL database is immediately available for all DyeMansion customers. Neither with waiting periods nor linked with additional costs for the development of a RAL color. This applies for DM60 color cartridges as well as for the DyeMansion On-Demand Service. Especially DyeMansion's 3D-printing service providers are more than happy to have the possibility offering their customers a better range of colors that is also easier to handle.

3D-SERVICE PROVIDERS BENEFIT FROM THE STANDARDIZED COLORS

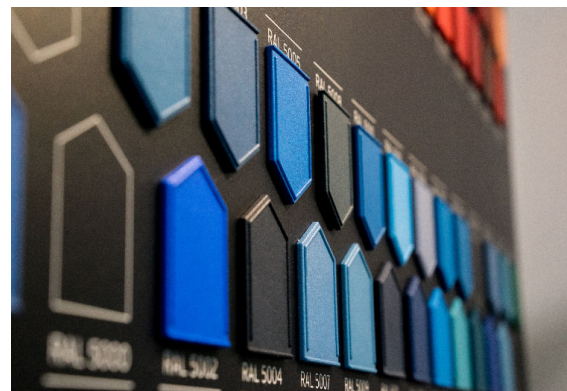
"For Prototype Projects and our clients, the full range of RAL colors, now available off the shelf for our new DyeMansion system, opens up new avenues for Additive Manufacturing and prototyping using the SLS process. The possibilities afforded by such a wide color range are fantastic and the coloring constraints in the process that previously existed have now disappeared. Our customers will love the ability to select any color for their 3D-parts, including bespoke colors to match their existing branding. With no color restrictions, this Print-to-Product workflow, using the DyeMansion system, takes the SLS process to another level", says Justin Pringle, Managing Director of Prototype Projects.

Also, Kim Johansson, Technical Sales at Acron is very looking forward to implementing the RAL colors. Acron was among the DM60 pilot customers back in 2016. „We have been very happy with the DM60 since day one. We are coloring SLS parts black every day, and quite often other colors from the standard chart. With access to colors from all the RAL range we can broaden the offer. It makes it easier to customize SLS parts for the customers' requests and needs “, tells Johansson.

INTERACTION BETWEEN MATERIAL, FINISH & COLOR

For the development of a certain color all the parameters that might have an impact on the coloring result have to be defined. The most important factors are

the material and the surface finish. That's why DyeMansion worked with PA2200, the most established material used and their PolyShot Surfacing (PSS) finish. Different materials or another finish of the surface can affect the final color. Everybody who wants to know more about the influencing factors and how to dye SLS parts in RAL colors is invited to read DyeMansion's latest [whitepaper](#) "Dyeing of SLS parts in RAL: Opportunities and Limitations".



ABOUT POLYSHOT SURFACING (PSS)

PolyShot Surfacing (PSS) is a proprietary blasting process developed by DyeMansion itself. With the proprietary PSS, you achieve unmatched part

properties - functionally and visually. A very high-quality, matt-gloss, dirt and water-repellent surface of SLS and MJF parts is produced within a few minutes.

RAL COLORS WILL SOON BE AVAILABLE FOR HP MULTI JET FUSION PARTS

PA2200 is just the beginning. Soon, the RAL palette will also be available for MJF parts from the new HP 300/500 series. Previously HP customers were only able to produce grey parts, which limited the possibilities of the Print-to-Product workflow to dark and black shades. With the new series, the MJF technology can produce white parts for the first time and eliminate any color limitations. DyeMansion also [whitepaper](#) about the first dyeing results of these new MJF parts. Additionally, DyeMansion is keen on expanding their color portfolio for further available powder-bed technologies and materials.



Dyed HP Multi Jet Fusion Parts printed on the new 300/500 Series

More detailed information on color options and the two whitepapers about dyeing SLS parts in RAL and dyeing the new HP Multi Jet Fusion 300/500 Series parts:

<https://dyemansion.de/en/color-options/>