

STARTING WITH TAILORED SOLUTIONS FOR THE AUTOMOTIVE AND LIFESTYLE SECTOR, DYEMANSION LAUNCHES THEIR BRAND-NEW EXTENDED COLOR SERIES COLORS^x FOR EXTRAORDINARY END-USE PRODUCTS



The requirement of every industry for their end-use parts produced with 3D-printing are very different. While some require outstanding colors, others must rely on specific functional properties. As global leader in Additive Manufacturing finishing and coloring solutions, DyeMansion is stepping on the gas to meet these different demands.

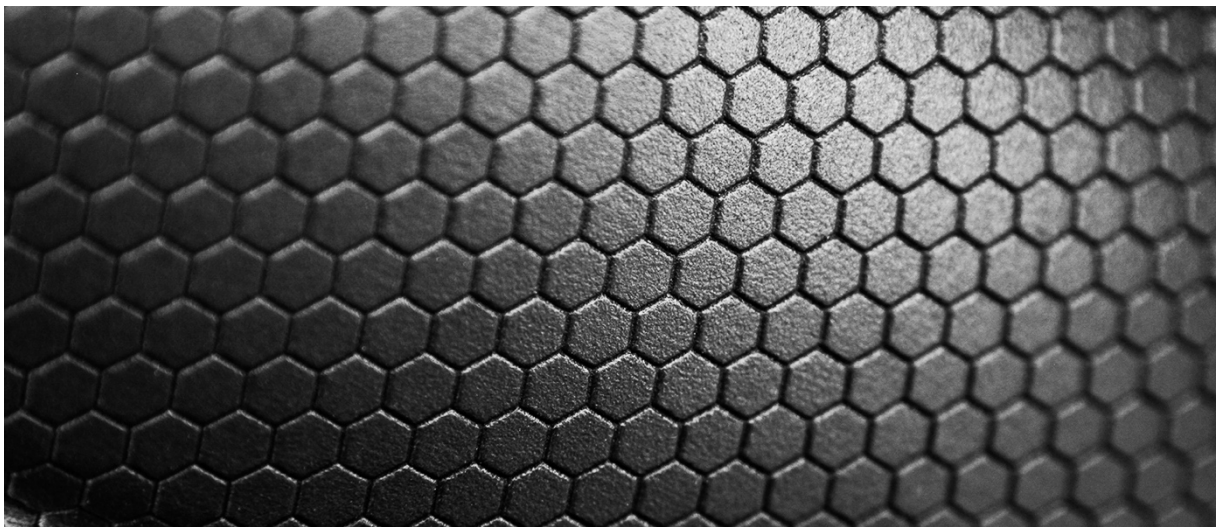
The launch of their brand-new Colors^x series is another step ahead to reach that goal.

21.05.19 Detroit - In close cooperation with their customers, the color experts from Germany aim to deliver the perfect finish for every application. Under the premise *X Colors for X Industries*, the Automotive Colors^x and Neon Colors^x will be followed by further special solutions in the future.

“Some of our earliest customers who made use of DyeMansion Print-to-Product technologies for serial production are from the Automotive and Lifestyle industries. While working closely with our customers, joint strategies are always about creating even more value to their businesses. So, I feel very delighted to now offer additional value creating products. Automotive and Neon Colors^x are only the beginning of providing more specific industry offers”, says Kai Witter, Chief Customer Officer at DyeMansion.

AUTOMOTIVE COLORS^x: MEETING LIGHT & HEAT RESISTANCE STANDARDS FOR AUTOMOTIVE INTERIOR PARTS

3D-printed parts that are in operation in the interior of a car must meet many requirements. Besides the reproducibility of color, their resistance to heat and light as well as good scratch resistance and rub fastness are key factors for success. In order to meet these demands, DyeMansion developed the Automotive Colors^x, a new color line within their extended Colors^x series, which is characterized by significantly improved light and heat resistance. The first of its kind is a strong black and enables unprecedented possibilities for the use of 3D-printed polyamide components as interior parts.



“Even finest textures, such as leather patterns, can be processed with our new Automotive Black^x by the usual DeepDye Coloring (DDC) process in the DM60 while retaining all details. Like any other of our colors, Automotive Black^x can be used with our contact-free color cartridges. As black is the most important color for automotive interiors, it was chosen to represent the new color range of Automotive Colors^x. However, this does not imply that the positive effects achieved are limited to black. More colors can be developed individually on request”, says Dr. Alena Folger, R&D Chemist at DyeMansion.

AUTOMOTIVE BLACK^x VS. DYEMANSION BASIC BLACK (DM BLACK 01)

Automotive Black^x was developed according to the hot irradiation standards of *ISO EN 105 B06 method 3* in three successive cycles. The testing results for EOS PA1101, EOS PA2200 and PA12 HP 3D HDR are captured in a technical whitepaper, which can be requested directly from DyeMansion and first parts can be seen during Rapid 2019 in Detroit, MI, on booth 153.

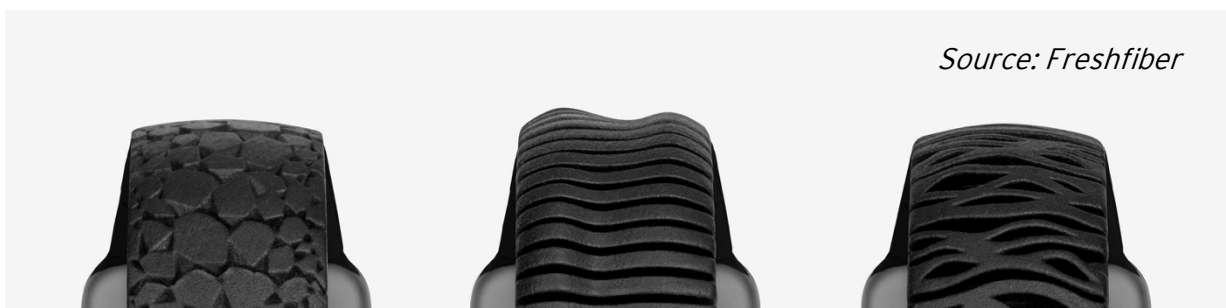


DM Black on PA1101 (before vs. after lightfast testing).



Automotive Black^x on PA1101 (before vs. after lightfast testing).

With DM Black 01, DyeMansion's basic black, a deep black tone is achieved that is already perfectly tuned for most applications like eyewear or medical devices and offers a lightfastness which is by far sufficient compared to other dyeing methods on the market. In contrast, the new Automotive Black^x offers a slightly less saturated black tone, which is characterized by its excellent resistance to light and heat.

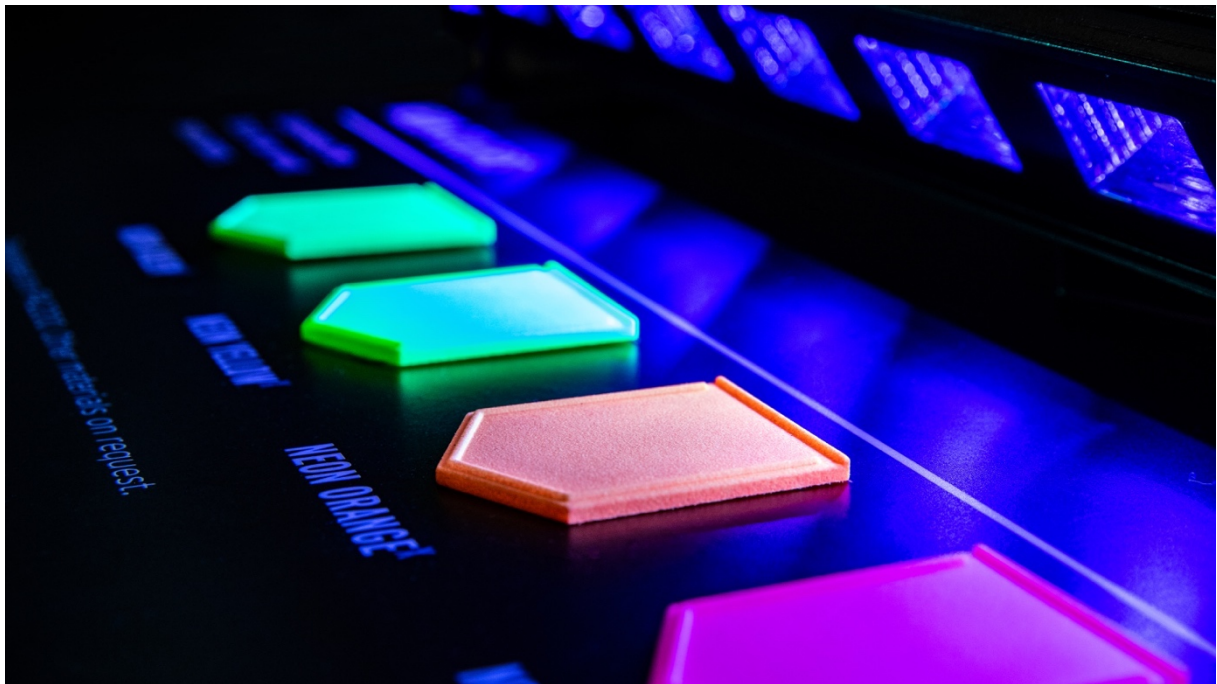


Source: Freshfiber



NEON COLORS^x: VIVID AND LOUMINUS COLORS FOR OUTSTANDING LIFESTYLE APPLICATIONS

Besides the new tailored solution for a more stable black, DyeMansion is stepping on the gas when it comes to unseen vivid colors for Lifestyle products. With the new Neon Colors^x the color experts from Munich open up an even broader range of possibilities for footwear, sportswear and any other lifestyle applications that would like to stand out in the crowd.



The Neon Colors^x are being rolled out with the four different colors Green^x, Yellow^x, Orange^x and Pink^x. The luminosity of our neon colors spices up any application and its appearance under black light is straight in your face. These stricking colors can be discovered with all senses - also during Rapid in Detroit, MI, at the DyeMansion booth 153.

Both, Neon and Automotive Colors^x are compatible with DyeMansion's two surfacing options [PolyShot Surfacing \(PSS\)](#) and [VaporFuse Surfacing \(VFS\)](#). Further, DyeMansion provides custom color developments for both Colors^x lines. For the Neon colors there applies only one limitation, which is white base material.



ABOUT DEEPDYE COLORING (DDC)

With the launch of the DyeMansion's Colors^x series, the coloring process which is established since 2015 and used by more than 600 customers worldwide finally got a name as well: DeepDye Coloring (DDC). It is characterized by its geometry-independent use as well as the limitless choice of custom colors and the immediate availability of more than 170 RAL colors. The DDC process works completely clean and contact-free and can be controlled and traced easily thanks to integrated RFID technology. Especially in combination with the widely used PolyShot Surfacing it provides a cost-efficient end-use part finish.

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