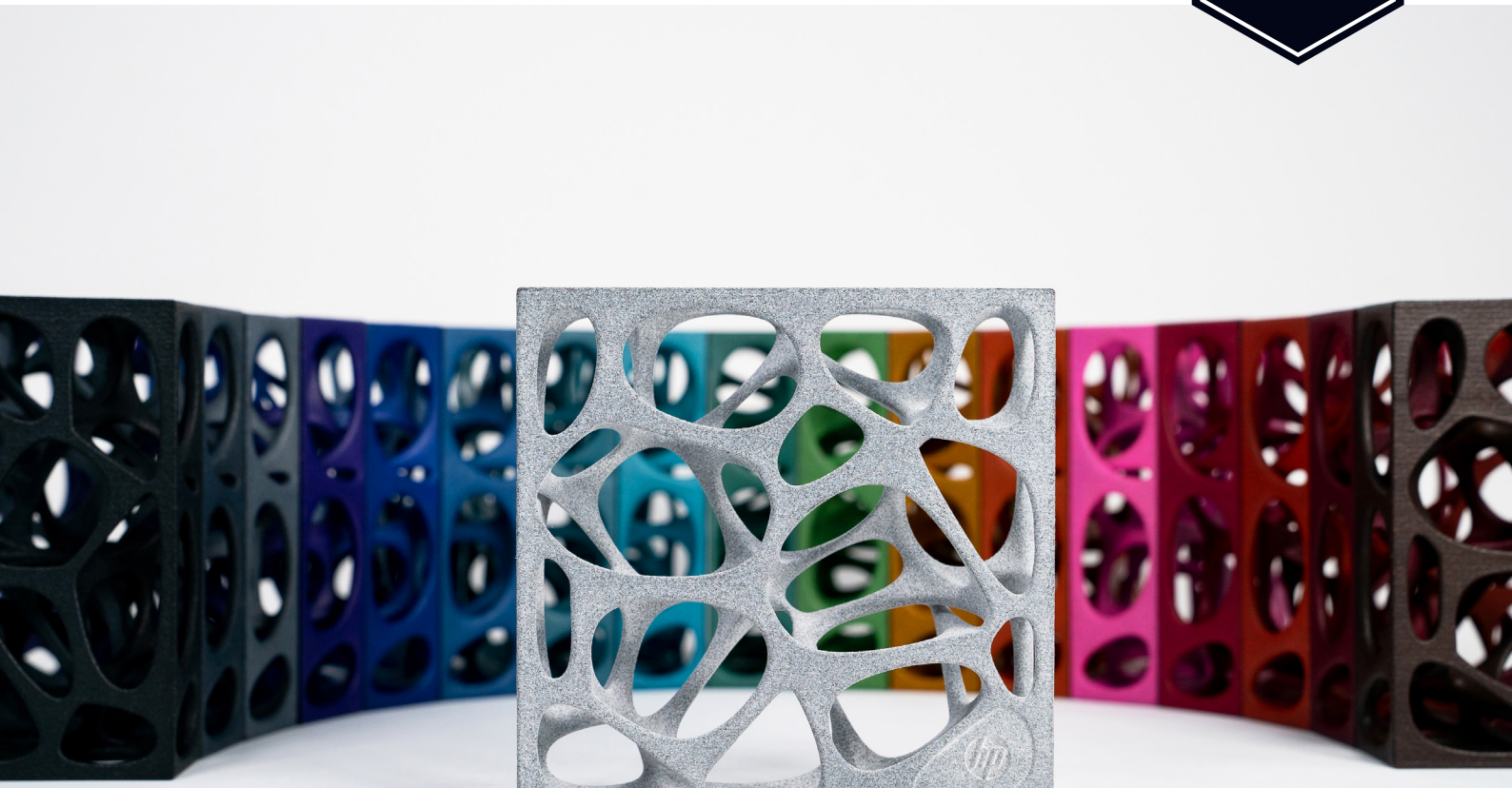
DYE MANSION



INTRODUCING
FIRST EVER VIBRANT COLORS FOR GREY HP MULTI JET FUSION PARTS

EVOLUTION OF COLORS

For several years now, users who use 3D-printed plastics with a white base material have been benefiting from the largest color database available on the market. From standard colors and color choices according to color systems such as RAL or Pantone to individual recipes for corporate colors or skin tones there are many options. Colors with special properties such as Automotive Colors[x] with increased light and heat resistance, are also part of the portfolio. However, for plastics with a grey base material, the color options have been verylimited to black and dark shades. That changes from now on!

2015
17 standard colors
SLS

2016
Color Matching
SLS

2018
RAL colors
SLS

2019
Colors[x]
SLS + MJF

2020
First ever vibrant colors for grey MJF parts

COLOR YOUR GREYS

BLACK 01	ASH 50	STONE 51	GRAPE 52	ROYAL 53	DENIM 54	PETROL 55	TURQUOISE 56	FOREST 57
							IN BETA	

MEADOW 58	CAMEL 59	BRICK 60	BUBBLEGUM 61	HIBISCUS 62	RUBY RED 63	BURGUNDY 64	CHOCOLATE 65

YOUR BENEFITS

- ✓ 17 standard colors
- ✓ The only vibrant color range for grey MJF parts on the market
- ✓ New (Consumer, Automotive, Industrial or Medical) applications with MJF parts become possible
- ✓ Flexible use with DM60: No hardware or software change for MJF colors needed
- ✓ Developed on HP 3D HR PA 12 with PSS finish, other materials may vary

LIVE & IN COLOR
REQUEST A
FREE COLOR FAN
hello@dyemansion.com

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HOW IT WORKS

"The customer demand for vibrant colors on their grey parts was strong, because color makes new applications possible. We accepted the challenge and have developed a new color line with completely new recipes and can offer now a previously unseen color spectrum on grey parts."

Constanza Oszwald, R&D Engineer of DyeMansion

DEEPDYE COLORING

During the DyeMansion DDC process, the dye penetrates into the material and binds to the base material. Under heat and pressure the DDC process reaches penetration depths up to 200 µm, which sets DDC apart from spray painting and pot dyeing. Parameters such as the color of the base material or the surface treatment of the part are important factors influencing the final color.

SURFACE FINISH

As with all DyeMansion colors, the new color line was developed with surface treatment in mind. The selected process here is mechanical PolyShot Surfacing (PSS) with the DyeMansion Powershot S. The automated, mechanical blasting process achieves a homogenization of the surface and is the basis for maximizing coloring results.

OTHER OPTIONS

These colors can be also applied on other materials and finishes, but this will influence the achieved color shade.
In cooperation with DyeMansion the MJF colors can be tested with other grey base materials (e.g. TPU) and finishes (e.g. VaporFuse Surfacing).

USAGE OF COLORS

To achieve these vibrant colors on a grey base material, DyeMansion developed a completely new formula that cannot be reproduced with manual pot dyeing solutions or other coloring systems on the market. The colors are available in cartridges suitable for the DM60.

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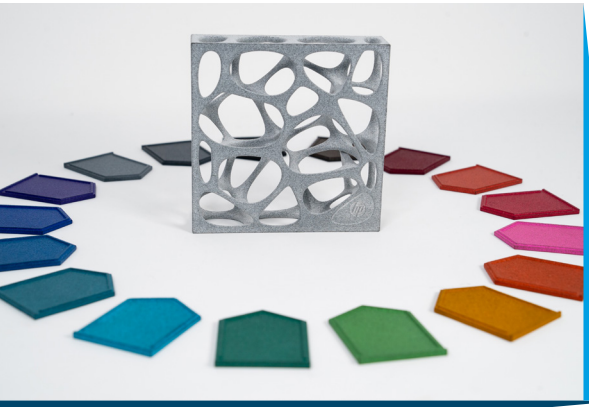
DESIGN & PART PRODUCTION

To meet the market requirements in terms of quality for high-value end-use products, a beta program was conducted in collaboration with our customers. After a detailed evaluation of the results, we can recommend the following to achieve the best possible results:

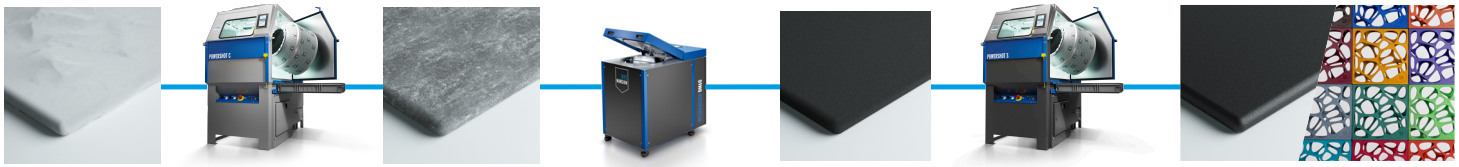


- ✓ Use for part production:
  HP Jet Fusion 4200, Balance Mode
  HP Jet Fusion 5200 system, Advanced Mode
- ✓ Apply the manufacturer's printing specifications
- ✓ Round the edges of your part to achieve a more homogeneous surface

PRINT-TO-PRODUCT WORKFLOW

FOR MJF PARTS

① CLEANING	② COLORING	③ SURFACING



Cleaning with **POWERSHOT C**

DeepDye Coloring (DDC) with **DM60**

PolyShot Surfacing (PSS) with **POWERSHOT S**

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GET IN TOUCH WITH US

For more information or detailed offers, please get in touch with your DyeMansion contact person or the sales contact in your region.

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