



VeroUltra™ BlackS and VeroUltra™ WhiteS for J5 and J3 Series

Overview

Full-color 3D printing becomes more vibrant and accurate with the use of the following opaque, rigid Model printing materials:

- VeroUltra™WhiteS RGD824™—a white material with improved opacity compared to VeroPureWhite™.
- VeroUltra™BlackS RGD864™—a black material with improved opacity compared to VeroBlackPlus™.



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This document describes recommendations and tips for achieving optimum quality and color accuracy when printing parts with these materials.

- A. Supported Printers
- B. Preparing Parts
- C. Preparing for Printing
- D. Part Quality



Figure 1: Thin label with text printed in full color on J55—blurred with Vero materials (left); sharp and realistic with VeroUltra opaque materials (right)



Figure 2: Material opacity—partially translucent with Vero materials (left); fully opaque with VeroUltra opaque materials (right)

Recommendations and Tips

A. Supported Printers

System	Support Material
J55™	
J55™ Prime	SUP710™
J5 DentaJet™	
J35™ Pro	

B. Preparing Parts

For consistent color and best color accuracy:

- If you are printing with VeroUltraBlackS, prefer a surface thickness of at least 2 millimeters (1 mm core, and 0.5 mm texture layer).
- If you are not printing with VeroUltraBlackS, surface thickness should be at least 3 millimeters (1mm core, and 1 mm texture layer).

This is especially important when printing overlapping areas.



Figure 3: 2 mm thickness (left); 3 mm thickness (right)

Recommendations and Tips

C. Preparing for Printing

On J5™ Series printers:

To print full color parts, use one of these color configurations:

- CMYW
- CMYKW

Make sure that when using VeroUltraBlackS, VeroUltraWhiteS is loaded as well. If you do not load both VeroUltra materials, you will be able print single material, not full color.

D. Part Quality

- Glossy vertical walls printed with VeroUltra materials may have a rougher surface compared to walls printed in VeroPureWhite or VeroBlackPlus.
- In J5 Series printers, some color non-uniformity may be noticeable on surfaces and when matching walls after printing.
- When printing with VeroUltraClearS and VeroUltraWhiteS, the clarity and transparency of parts may be adversely affected. Clear areas may have a foggy appearance.

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USA - Headquarters

7665 Commerce Way
Eden Prairie, MN 55344, USA
+1 952 937 3000

EMEA

Airport Boulevard B 120
77836 Rheinmünster, Germany
+49 7229 7772 0

ISRAEL - Headquarters

1 Holtzman St., Science Park
PO Box 2496
Rehovot 76124, Israel
+972 74 745 4000

ASIA PACIFIC

7th Floor, C-BONS International Center
108 Wai Yip Street Kwun Tong Kowloon
Hong Kong, China
+ 852 3944 8888



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