

# J850™ TechStyle™

## Product Specifications

### Materials

**Unlimited number of digital materials including:**

- Over 600K available colors in both matte and glossy finishes
- Translucent color tints
- Flexible tactile materials in a variety of textures and colors

Digital Model Materials

VeroEco™Flex family of semi-flexible materials: Clear, Black, White, Cyan, Magenta, Yellow and VeroEco™ ContactFlex. VeroEco Flex family of materials are in compliance with RSL (Restricted Substances List for Finished Products) industry standards.

Industry Compliant Materials

Printed Textile Testing*	100% Cotton	100% Polyester	50/50% Cotton Polyester	Linen
Color fastness for washing at 40°C (1-5) ISO 105-C06:2010	5	5	5	5
Color fastness for washing at 60°C (1-5) ISO 105-C06:2010	5	5	5	5
Adhesion to washing at 40°C & 60°C ISO 105-C06:2010	Pass	Pass	Pass	Pass
Color fastness to rubbing (wet 50 rubs) ISO 11640:2018	Pass	Pass	Pass	Pass
Color fastness to rubbing (dry 150 rubs) ISO 11640:2018	Pass	Pass	Pass	Pass
Abrasion resistance (Martindale) ISO 12947-2:2016	Pass	Pass	Pass	Pass

Standard Materials

- VeroUltra™ & VeroVivid™ family of opaque and transparent materials + neutral shades and vibrant colors
- Agilus30™ family of flexible materials: Clear, Black, White, Cyan, Magenta and Yellow

Support Materials

SUP705™ (water jet removable) & 705B

### Hardware

Build Size	<p><b>Fabric Size Handling:</b> min 560 x 460mm; max 2 x 2mm</p> <p><b>Fabric Thickness:</b> 0.1-3.0mm</p> <p>Interchangeable Tray for smooth production runs</p>
Effective Printing Area	460 x 360 x 50 mm (18.1 x 14.2 x 1.9 in) on a stretch of fabric up to 2m <sup>2</sup>
Layer Thickness	Horizontal build layers down to 27-micron (0.001 in.)
Workstation Compatibility	Windows 10
Network Connectivity	LAN - TCP/IP Industry 4.0 Compliance

\*Test results based on multiple textile samples comprising 3D printed elements of various colors.

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System Size and Weight	<b>J850 TechStyle System:</b> 1400 x 1260 x 1100 mm (55.1 x 49.6 x 43.4 in.); 430 kg (948 lbs.)
	<b>J850 TechStyle Material Cabinet:</b> 1119 x 656 x 637 mm (44 x 25.8 x 25.1 in.); 153 kg (337 lbs.)
Operating Conditions	Temperature 18 – 25 °C (64 – 77 °F); relative humidity 30-70% (non-condensing)
Power Requirements	100–120 VAC, 50–60 Hz, 13.5 A, 1 phase; 220–240 VAC, 50–60 Hz, 7 A, 1 phase
Regulatory Compliance	CE, FCC, EAC, RCM, R-NZ1
Software	GrabCAD Print - GrabCAD Printer Connectivity SDK
Build Modes	<b>High Mix:</b> up to 7 base resins, 27-micron (0.001 in.) resolution
	<b>High Speed:</b> up to 3 base resins, 27-micron (0.001 in.) resolution
Accuracy	<b>J850 TechStyle System:</b> Typical deviation from STL dimensions, for models printed with rigid materials, based on size: under 100 mm – $\pm 100\mu$ ; above 100 mm – $\pm 200\mu$ or $\pm 0.06\%$ of part length, whichever is greater.
	<b>Software:</b> Deviation from STL dimensions, for 1 Sigma (67%) of models printed with rigid materials, based on size: under 100 mm – $\pm 150\mu$ ; above 100 mm – $\pm 0.15\%$ of part length.  Deviation from STL dimensions, for 2 Sigma (95%) of models printed with rigid materials, based on size: under 100 mm – $\pm 180\mu$ ; above 100 mm – $\pm 0.2\%$ of part length.

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