J850™ TechStyle™

Product Specifications

Materials

Digital Model 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

Industry Compliant 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.

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

Fabric Size Handling: min 560 x 460mm; max 2 x 2mm
Fabric Thickness: 0.1-3.0mm
Interchangeable Tray for smooth production runs

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^2

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	**J850 TechStyle System:** 1400 x 1260 x 1100 mm (55.1 x 49.6 x 43.4 in.); 430 kg (948 lbs.) **J850 TechStyle Material Cabinet:** 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	**High Mix:** up to 7 base resins, 27-micron (0.001 in.) resolution **High Speed:** up to 3 base resins, 27-micron (0.001 in.) resolution
Accuracy	**J850 TechStyle System:** Typical deviation from STL dimensions, for models printed with rigid materials, based on size: under 100 mm – ±100µ; above 100 mm – ±200µ or ± 0.06% of part length, whichever is greater. **Software:** Deviation from STL dimensions, for 1 Sigma (67%) of models printed with rigid materials, based on size: under 100 mm – ±150µ; above 100 mm – ±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 – ±180µ; above 100 mm – ±0.2% of part length.