

Vero for Stratasys J55 and J55 Prime

The Vero™ family on Stratasys J55™ and J55 Prime includes VeroPureWhite™, VeroBlackPlus™, VeroClear™, VeroCyanV™, VeroMagentaV™ and VeroYellowV™. These six multi-purpose materials are most widely used for visual models at the concept or detailed design phases, for engineering functional prototypes and product assemblies, or as part of final end-use products. The combination of the Vero White, Black and Clear shades, together with the Vivid colors, allow for any transparent or opaque combination within a wide color gamut of up to 640K colors. Materials in the Vero family share similar mechanical and thermal properties, as summarized in the table below.

VeroPureWhite, VeroBlackPlus, VeroClear, VeroCyanV, VeroMagentaV, VeroYellowV		
	ASTM	Value
Tensile Strength	D-638-03	40 – 55 MPa (5,800 – 8,000 psi)
Elongation at Break	D-638-05	5 – 20%
Modulus of Elasticity	D-638-04	2,200 – 3,000 MPa (320,000 – 435,000 psi)
Flexural Strength	D-790-03	70 – 85 MPa (10,000 – 16,000 psi)
Flexural Modulus	D-790-04	2,000 – 2,500 MPa (290,000 – 365,000 psi)
HDT, °C @ 0.45MPa	D-648-06	45 – 50 °C (113 – 122 °F)
HDT, °C @ 1.82MPa	D-648-07	45 – 50 °C (113 – 122 °F)
Izod Notched Impact	D-256-06	20 – 30 J/m (0.375 – 0.562 ft-lb/inch)
Water Absorption	D-570-98 24hr	1.1 – 1.5%
Tg	DMA, E _v	52 – 54 °C (126 – 129 °F)
Shore Hardness (D)	Scale D	83 – 86 (Scale D)
Polymerized Density	Scale M	1.17 – 1.18 g/cm ³

For information on the Vero material properties on the J8 series and other PolyJet 3D printers, please visit www.stratasys.com/3d-printers/j8-series.

USA - Headquarters

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

ISRAEL - Headquarters

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

EMEA

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

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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www.stratasys.com/contact-us/locations

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