

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»	52 – 54 °C (126 – 129 °F)
Shore Hardness (D)	Scale D	83 – 86 (Scale D)
Polymerized Density	Scale M	1.17 – 1.18 g/cm3

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.

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