

Vero for Stratasys J55

The Vero™ family on Stratasys J55™ 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 nearly 500,000 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

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