Vero

The Vero™ family includes the Rigid Opaque collection of materials. These seven multi-purpose materials are most widely used for visual models, engineering prototypes, product assemblies and RTV molding patterns. Rigid Opaque materials are good material choices for light functional testing, patterns, prototypes and models.

Available in seven hues including blue, white, black, gray, cyan, magenta and yellow, the Vero family shares similar mechanical, thermal and electrical properties. The medium shades of VeroBlue™ and VeroGray™ provide the best detail visualization, without glare or darkness. Vero PureWhite™ is twice as opaque, 20 percent brighter and more UV resistant than VeroWhitePlus™.

LEARN MORE ABOUT VERO AT STRATASYS.COM

Vero

At the core: PolyJet Technology

PolyJet™ technology creates precise prototypes that set the standard for finished-product realism. Its fine resolution makes complex shapes, intricate details and smooth surfaces possible. PolyJet 3D Printing works by jetting layers of liquid photopolymer onto a build tray and instantly curing them with UV light. The fine layers build up to create a precise 3D model or prototype. Models are ready to handle right out of the 3D printer, with no post-curing needed, although some materials gain better temperature resistance with a thermal post-processing.

Keep valuable resources in-house

You'll be amazed when you see how easy it is to produce realistic models in-house. PolyJet 3D Printers offer not only unparalleled speed, they make it easy for you to print with the widest range of material properties.

Good ideas sell easier

PolyJet 3D Printers improve communication and collaboration because they produce amazingly accurate representations of your ideas that you can share with your team and your clients for a faster, more confident buy-in.

VERO PUREWHITE, VEROBLACKPLUS, VEROCYAN, VEROGRAY, VEROMAGENTA, VEROMAGENTAV, VEROWHITEPLUS, VEROYELLOW, VEROYELLOWV

	ASTM	ENGLISH	METRIC
Tensile strength	D-638-03	7,250-9,450 psi	50-65 MPa
Elongation at break	D-638-05	10-25%	10-25%
Modulus of elasticity	D-638-04	290,000-435,000 psi	2,000-3,000 MPa
Flexural Strength	D-790-03	11,000-16,000 psi	75-110 MPa
Flexural Modulus	D-790-04	320,000-465,000 psi	2,200-3,200 MPa
HDT, °C @ 0.45MPa	D-648-06	113-122 °F	45-50 °C
HDT, °C @ 1.82MPa	D-648-07	113-122 °F	45-50 °C
Izod Notched Impact	D-256-06	0.375-0.562 ft-lb/inch	20-30 J/m
Water Absorption	D-570-98 24hr	1.1-1.5%	1.1-1.5%
Tg	DMA, E»	126-129 °F	52-54 °C
Shore Hardness (D)	Scale D	83-86 (Scale D)	83-86 (Scale D)
Rockwell Hardness	Scale D	73-76 (Scale M)	73-76 (Scale M)
Polymerized density	Scale M		1.17-1.18 g/cm^3
Ash content (VeroGray, VeroWhitePlus)	USP281	0.23-0.26 %	0.23-0.26%
Ash content (VeroBlackPlus)	USP281	0.01-0.02 %	0.01-0.02%

VEROBLUE

	ASTM	ENGLISH	METRIC
Tensile strength	D-638-03	7,250-8,700 psi	50-60 MPa
Elongation at break	D-638-05	15-25%	15-25%
Modulus of elasticity	D-638-04	290,000-435,000 psi	2,000-3,000 MPa
Flexural Strength	D-790-03	8,700-10,200 psi	60-70 MPa
Flexural Modulus	D-790-04	265,000-365,000 psi	1,900-2,500 MPa
HDT, °C @ 0.45MPa	D-648-06	113-122 °F	45-50 °C
HDT, °C @ 1.82MPa	D-648-07	113-122 °F	45-50 °C
Izod Notched Impact	D-256-06	0.375-0.562 ft-lb/inch	20-30 J/m
Water Absorption	D-570-98 24hr	1.5-2.2%	1.5-2.2%
Tg	DMA, E»	118-122 °F	48-50 °C
Shore Hardness (D)	Scale D	83-86 (Scale D)	83-86 (Scale D)
Rockwell Hardness	Scale D	73-76 (Scale M)	73-76 (Scale M)
Polymerized density	Scale M		1.18-1.19 g/cm^3
Ash content	USP281	0.21-0.22%	0.21-0.22%

Vero

SYSTEM AVAILABILITY

PRINTER	MINIMUM LAYER THICKNESS CAPABILITY	SUPPORT STRUCTURE	AVAILABLE COLORS
Objet24™	28 microns (0.0011 in.)	SUP705 (WaterJet removable)	VeroWhitePlus
Objet30 Pro™			VeroBlackPlus, VeroBlue, VeroGray, VeroWhitePlus
Objet30 Prime™		SUP705 (WaterJet removable), SUP706 (soluble)	
Eden260VS™	16 microns (0.0006 in.)		
Objet260 Connex1™			
Objet260 Connex3™			VeroBlackPlus, VeroBlue, VeroCyan, VeroGray, VeroMagenta™, VeroMagentaV™, Vero PureWhite, VeroWhitePlus, VeroYellow, VeroYellowV™
Objet500 Connex1™			VeroBlackPlus, VeroBlue, VeroGray, Vero PureWhite, VeroWhitePlus
Objet350/500 Connex3™			VeroBlackPlus, VeroBlue, VeroCyan, VeroGray, VeroMagenta, VeroMagentaV, Vero PureWhite, VeroWhitePlus, VeroYellow, VeroYellowV
Objet1000 Plus™		SUP705 (WaterJet removable)	VeroBlackPlus, VeroBlue, VeroGray, Vero PureWhite, VeroWhitePlus
Stratasys J735™/J750™	14 microns (0.00055 in.)	SUP705 (WaterJet removable), SUP706 (soluble)	VeroBlackPlus, VeroBlue, VeroCyan, VeroGray, VeroMagenta, Vero PureWhite, VeroYellow, VeroMagentaV, VeroYellowV

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