stratasys

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 VeroBlueTM and VeroGrayTM provide the best detail visualization, without glare or darkness. The VeroVividTM family of VeroCyanVTM, VeroMagentaVTM and VeroYellowVTM offers more saturated and vibrant color. Vero PureWhiteTM is twice as opaque, 20 percent brighter and more UV resistant than VeroWhitePlusTM.

Vero PureWhite, VeroBlackPlus, VeroCyan, VeroCyanV, VeroGray, VeroMagenta, VeroMagentaV, VeroWhitePlus, VeroYellow, VeroYellowV					
	ASTM	Value			
Tensile Strength	D-638-03	50 – 65 MPa (7,250 – 9,450 psi)			
Elongation at Break	D-638-05	10 – 25%			
Modulus of Elasticity	D-638-04	2,000 – 3,000 MPa (290,000 – 435,000 psi)			
Flexural Strength	D-790-03	75 - 110 MPa (11,000 - 16,000 psi)			
Flexural Modulus	D-790-04	2,200 – 3,200 MPa (320,000 – 465,000 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%			
Тд	DMA, E»	52 – 54 °C (126 – 129 °F)			
Shore Hardness (D)	Scale D	83 - 86 (Scale D)			
Rockwell Hardness	Scale D	73 - 76 (Scale M)			
Polymerized Density	Scale M	1.17 – 1.18 g/cm³			
Ash Content (VeroGray, VeroWhitePlus)	USP281	0.23 – 0.26%			
Ash Content (VeroBlackPlus)	USP281	0.01 – 0.02%			



Vero

VeroBlue				
	ASTM	Value		
Tensile Strength	D-638-03	50 - 60 MPa (7,250 - 8,700 psi)		
Elongation at Break	D-638-05	15 – 25%		
Modulus of Elasticity	D-638-04	2,000 - 3,000 MPa (290,000 - 435,000 psi)		
Flexural Strength	D-790-03	60 - 70 MPa (8,700 - 10,200 psi)		
Flexural Modulus	D-790-04	1,900 – 2,500 MPa (265,000 – 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	1.5 – 2.2%		
Тд	DMA, E»	48 - 50 °C (118 - 122 °F)		
Shore Hardness (D)	Scale D	83 - 86 (Scale D)		
Rockwell Hardness	Scale D	73 - 76 (Scale M)		
Polymerized Density	Scale M	1.18 – 1.19 g/cm ³		
Ash Content	USP281	0.21 – 0.22%		

System Availability			
Printer	Minimum Layer Thickness Capability	Support Structure	Available Colors
Objet30 Pro™	28 microns (0.0011 in.)	SUP705 (WaterJet removable)	VeroBlackPlus™, VeroBlue, VeroGray, VeroWhitePlus
Objet30 Prime™	28 microns (0.0011 in.)	SUP705 (WaterJet removable), SUP706 (soluble)	VeroBlackPlus, VeroBlue, VeroGray, VeroWhitePlus
Eden260VS™	16 microns (0.0006 in.)	SUP705 (WaterJet removable), SUP706 (soluble)	VeroBlackPlus, VeroBlue, VeroGray, VeroWhitePlus
Objet260 Connex1™	16 microns (0.0006 in.)	SUP705 (WaterJet removable), SUP706 (soluble)	VeroBlackPlus, VeroBlue, VeroGray, VeroWhitePlus
Objet260 Connex3™	16 microns (0.0006 in.)	SUP705 (WaterJet removable), SUP706 (soluble)	VeroBlackPlus, VeroBlue, VeroCyan, VeroGray, VeroMagenta™, VeroMagentaV, Vero PureWhite, VeroWhitePlus, VeroYellow™, VeroYellowV



Vero

System Availability (Continued)					
Printer	Minimum Layer Thickness Capability	Support Structure	Available Colors		
Objet500 Connex1™	16 microns (0.0006 in.)	SUP705 (WaterJet removable), SUP706 (soluble)	VeroBlackPlus, VeroBlue, VeroGray, Vero PureWhite, VeroWhitePlus		
Objet350/500 Connex3™	16 microns (0.0006 in.)	SUP705 (WaterJet removable), SUP706 (soluble)	VeroBlackPlus, VeroBlue, VeroCyan, VeroGray, VeroMagenta, VeroMagentaV, Vero PureWhite, VeroWhitePlus, VeroYellow, VeroYellowV		
Objet1000 Plus™	16 microns (0.0006 in.)	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, VeroCyanV		

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