



The
Design to
Manufacturing Co.



MATERIAL **VEROCLEAR**

OVERVIEW

For more information or advice:



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VeroClear

Rigid Transparent PolyJet Material

VeroClear™, a transparent PolyJet™ photopolymer, offers strength, stiffness and impact resistance ideal for concept modeling, design verification and functional testing of clear parts.

VeroClear simulates PMMA (polymethyl methacrylate), commonly known as acrylic, and enables the visualization of internal components and features ideal for form and fit testing of see-through parts such as eyewear, light covers and medical devices. 3D print transparent parts, or blend with other PolyJet materials for a range of opacities, stunning hues or hardnesses, a versatility ideal for rapid prototyping. To achieve the best clarity, parts should be polished, lacquered or photo bleached.

	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%
Tg	DMA, E»	52 – 54 °C (126 – 129 °F)
Shore Hardness (D)	Scale D	83 – 86
Rockwell Hardness	Scale M	73 – 76
Polymerized Density	ASTM D792	1.18 – 1.19 g/cm³
Ash Content	USP281	0.02 – 0.06%

VeroClear

System Availability	Minimum Layer Thickness	Support Structure	Available Colors
Objet30 Pro™	16 microns (0.0006 in.)	SUP705 (WaterJet removable) SUP706B (soluble)	☐ Clear
Objet30 Prime™	16 microns (0.0006 in.)	SUP705 (WaterJet removable) SUP706B (soluble)	☐ Clear
Objet Eden260VS™	16 microns (0.0006 in.)	SUP705 (WaterJet removable) SUP706B (soluble)	☐ Clear
Objet260/500 Connex1™	16 microns (0.0006 in.)	SUP705 (WaterJet removable) SUP706B (soluble)	☐ Clear
Objet260/350/500 Connex3™	16 microns (0.0006 in.)	SUP705 (WaterJet removable) SUP706B (soluble)	☐ Clear
Stratasys J735™/J750™	14 microns (0.00055 in.)	SUP705 (WaterJet removable) SUP706B (soluble)	☐ Clear
Stratasys J55™	18 microns (0.0007 in.)	SUP710 (WaterJet removable)	☐ Clear
Objet1000 Plus™	16 microns (0.0006 in.)	SUP705 (WaterJet removable) SUP706B (soluble)	☐ Clear

Find the Perfect Material for Your Application

From strength and flexibility to biocompatibility and color, our experts help you select materials that meet your part performance and production goals - every time.

TALK TO AN EXPERT

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100%
Tailored
Advice