

VeroUltraClearS for Stratasys J55



VeroUltra™ClearS is a transparent PolyJet™ material offered on the J55 3D printer from Stratasys. It provides exceptional clarity combined with strength, stiffness and impact resistance. VeroUltraClearS simulates PMMA (polymethyl methacrylate), commonly known as acrylic, achieving 90% light transmission through a 6 mm thick sample*. VeroUltraClearS has a higher level of clarity and transparency and a lower yellow index than standard VeroClear™.

Typical applications include concept models and prototypes for eyewear, lighting components, and the replication of glass and clear polymers. Other uses include modeling clear tubes and housings for pumps and gearboxes to view fluid flow and internal mechanisms.

	ASTM	Value
Tensile Strength	D-638-03	26 – 37 MPa (3,770 – 5,370 psi)
Elongation at Break	D-638-05	45 – 60%
Modulus of Elasticity	D-638-04	1500 – 2000 MPa (217,000 – 290,000 psi)
Flexural Strength	D-790-03	48 – 60 MPa (6,700 – 8,700 psi)
Flexural Modulus	D-790-04	1,300 – 1,800 MPa (189,000 – 261,000 psi)
HDT, °C @ 0.45 MPa	D-648-06	45 – 48 °C (113 – 118 °F)
Izod Notched Impact	D-256-06	20 – 30 J/m (0.375 – 0.562 ft-lb/in.)
Water Absorption	D-570-98 24hr	1.2 – 1.4%
Tg	DMA, E*	47-48 °C
Shore Hardness	Scale D	75 – 80
Rockwell Hardness	Scale M	60 – 70
Polymerized Density	ASTM D792	1.17-1.18
Ash Content	USP 281	0.02 – 0.06%

* All values were measured after 24 hour photobleaching using blue LEDs, at 40 °C.

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stratasys.com
ISO 9001:2015 Certified



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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.

DraftGrey		
	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 VeroClear material properties on the J8 series and other PolyJet 3D printers, please visit www.stratasys.com/3d-printers/j8-series.

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