VeroUltraClearS

VeroUltra™ClearS is a transparent PolyJet™ material offered on the J55, J55 Prime and J35 printers 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.