## VeroUltraClear



VeroUltraClear™ is a transparent PolyJet™ digital material offering exceptional clarity combined with strength, stiffness and impact resistance. VeroUltraClear simulates PMMA (polymethyl methacrylate), commonly known as acrylic, achieving 86% light transmission through a 6 mm thick sample. VeroUltraClear has a higher level of clarity and transparency and a lower yellow index than standard VeroClear™. Thermal properties are similar but mechanical properties are somewhat lower than 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	39 – 43 MPa (5,650 – 6,240 psi)	
Elongation at Break	D-638-05	20 - 35%	
Modulus of Elasticity	D-638-04	1,400 - 2,100 MPa (203,000 - 304,600 psi)	
Flexural Strength	D-790-03	58 – 72 MPa (8,400 – 10,400 psi)	
Flexural Modulus	D-790-04	1,900 – 2,300 MPa (275,000 – 333,000 psi)	
HDT, °C @ 0.45 MPa Before Photobleaching	D-648-06	47 – 49 °C (117 – 120 °F)	
HDT, °C @ 0.45 MPa After Photobleaching	D-648-06	48 – 52 °C (118 – 126 °F)	
Izod Notched Impact	D-256-06	20 – 30 J/m (0.375 – 0.562 ft-lb/in.)	
Water Absorption	D-570-98 24hr	1.25 – 1.40%	
Tg	DMA, E»	52 – 54 °C (125.6 – 129.2 °F)	
Shore Hardness	Scale D	80 - 85	
Rockwell Hardness	Scale M	70 – 75	
Polymerized Density	ASTM D792	1.18 – 1.19 g/cm <sup>3</sup>	
Ash Content	USP 281	0.02 – 0.06%	

System Availability				
Printer	Minimum Layer Thickness	Support Structure	Available Colors	
J835™ / J850™	14 microns (0.00055 in.)	SUP705 (water jet removable) SUP706B (soluble)	Clear	

## Stratasys Headquarters

7665 Commerce Way, Eden Prairie, MN 55344 +1 800 801 6491 (US Toll Free) +1 952 937-3000 (Intl) +1 952 937-0070 (Fax)

stratasys.com ISO 9001:2015 Certified

1 Holtzman St., Science Park, PO Box 2496 Rehovot 76124, Israel +972 74 745 4000 +972 74 745 5000 (Fax)

© 2019 Stratasys. All rights reserved. Stratasys and the Stratasys Signet logo are registered trademarks of Stratasys. Inc. PolyJet, J835, J850, VeroUltraClear, VeroClear, SUP705 and SUP706B are trademarks of Stratasys, Inc. All other trademarks are the property of their respective owners, and Stratasys assumes no responsibility with regard to the selection, performance, or use of these non-Stratasys products. Product specifications subject to change without notice. MDS\_PJ\_VeroUltraClear\_0919a

