

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 ³ |
| Ash Content | USP 281 | 0.02 – 0.06% |

System Availability

| Printers | Minimum Layer Thickness | Support Structure | Available Colors |
|--|--------------------------|---|------------------|
| J735™ / J750™ J826™ / J835™ / J850™ | 14 microns (0.00055 in.) | SUP705™ (water jet removable) SUP706B™ (soluble) | Clear |

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