

# 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<br>(7,250 – 9,450 psi)           |
| Elongation at Break   | D-638-05      | 10 – 25%                                     |
| Modulus of Elasticity | D-638-04      | 2,000 – 3,000 MPa<br>(290,000 – 435,000 psi) |
| Flexural Strength     | D-790-03      | 75 – 110 MPa<br>(11,000 – 16,000 psi)        |
| Flexural Modulus      | D-790-04      | 2,200 – 3,200 MPa<br>(320,000 – 465,000 psi) |
| HDT, °C @ 0.45MPa     | D-648-06      | 45 – 50 °C<br>(113 – 122 °F)                 |
| HDT, °C @ 1.82MPa     | D-648-07      | 45 – 50 °C<br>(113 – 122 °F)                 |
| Izod Notched Impact   | D-256-06      | 20 – 30 J/m<br>(0.375 – 0.562 ft-lb/inch)    |
| Water Absorption      | D-570-98 24hr | 1.1 – 1.5%                                   |
| Tg                    | DMA, E»       | 52 – 54 °C<br>(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/cm <sup>3</sup>                |
| Ash Content           | USP281        | 0.02 – 0.06%                                 |

# VeroClear

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

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