

VeroClear for Stratasys J55

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

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