Vero | POLYJET RIGID OPAQUE PHOTOPOLYMER

Vero™ Rigid Opaque photopolymers provide excellent detail visualization in black, white, cyan, yellow and magenta. Custom blends enables the Connex3 system to create hundreds of digital colors, blended right in the 3D printer. You can incorporate as many as 46 vibrant, repeatable rigid colors into one 3D model for unprecedented design freedom. These color materials also blend with VeroClear Transparent photopolymer for beautiful translucent color, and with Rubber-like materials for a range of hues and hardnesses. You can 3D print accurate, attractive prototypes that test fit, form and function, even for moving and assembled parts.

MECHANICAL PROPERTIES	TEST METHOD	IMPERIAL	METRIC
Tensile Strength	D-638-03	7,250 - 9,450 psi	50 - 65 MPa
Elongation at Break	D-638-05	10 - 25%	10 - 25%
Modulus of Elasticity	D-638-04	290,000 - 435,000 psi	2,000 - 3,000 MPa
Flexual Strength	D-790-03	11,000 - 16,000 psi	75 - 110 MPa
Flexual Modulus	D-790-04	320,000 - 465,000 psi	2,200 - 3,200 MPa
Izod Notched Impact	D-256-06	0.375 - 0.562 ft lb/inch	20 - 30 J/m

THERMAL PROPERTIES	TEST METHOD	IMPERIAL	METRIC
Heat Deflection (HDT) @ 0.45 MPa	D-648-06	113 - 122 °F	45 - 50 °C
Heat Deflection (HDT) @ 1.82 MPa	D-648-07	113 - 122 °F	45 - 50 °C
Glass Transition (Tg)	DMA, E	126 - 129 °F	52 - 54 °C

OTHER	TEST METHOD	IMPERIAL	METRIC
Shore Hardness	Scale D	83 - 86 Scale D	83 - 86 Scale D
Rockwell Hardness	Scale M	73 - 76 Scale M	73 - 76 Scale M
Polymerized Density	ASTM D792	-	1.17- 1.18 g/cm^3
Ash Content	USP 281	0.23 - 0.26 %	0.23 - 0.26 %
Water Absorption	D-570-98 24hr	1.1 - 1.5%	1.1 - 1.5%