



# Eyewear Rapid Prototyping

REVOLUTIONIZE EYEWEAR TIME-TO-MARKET WITH  
STRATASYS 3D PRINTING



VEROFLEX

**stratasys**



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## REVOLUTIONIZE EYEWEAR TIME-TO-MARKET WITH STRATASYS 3D PRINTING

### Bring Modern Eyewear to Life Sooner

Imagine cutting 15 months from the development and production cycle of every eyewear frame, shrinking your time-to-market to less than eight weeks.

3D printing makes that vision a reality.

Avoid tremendous amounts of hand labor, prevent quality and repeatability issues, and shorten your product development cycle by 3D printing eyewear prototypes. Accurately simulate the look, feel and function of the finished product, without the need for painting or assembly with the Stratasys eyewear prototyping solution — the full-color, multi-material Stratasys J750™ 3D Printer and VeroFlex™, a material formulated specifically to meet your needs for flexibility, color control and durability in eyeglass frames.

### Unrivaled Realism

With an astounding variety of color combinations to choose from and multi-material capabilities, the Stratasys J750 allows you to bring your most imaginative eyewear designs to life. VeroFlex, a PolyJet™ rigid photopolymer, offers the ideal balance between rigidity and flexibility for rapid prototyping eyewear, from concept validation to design verification to functional performance. Get improved performance with prototypes that can better withstand drop tests, lens-mounting and wearability tests.

Together, the Stratasys J750 and VeroFlex will drastically reduce your time to market and infrastructure costs with realistic prototypes that simulate your final eyewear designs like never before.

## Fast and Efficient Workflow

Streamline your 3D printing workflow with GrabCAD Print™. Print directly from your preferred professional CAD format, and lean on the smart default settings, tooltips and notifications to guide you through a seamless 3D printing process. Work with detailed views of your model, tray and slice preview so you can easily make necessary adjustments before printing.

With the Stratasys rapid prototyping eyewear solution, you have the ability to stay ahead of competition with the latest market trends and deliver modern, proven designs faster than ever before.

MECHANICAL PROPERTIES	TEST METHOD	IMPERIAL	METRIC
Tensile Strength	D-6338-03	6237 – 9282 psi	43 – 64 MPa
Elongation at Break	D-638-05	8 – 20%	8 – 20%
Modulus of Elasticity	D-638-04	137,786 – 232,060 psi	950 – 1600 MPa
Flexural Strength	D-790-03	6962 – 12,763 psi	48 – 88 MPa
Flexural Modulus	D-790-04	232,061 – 333,587 psi	1600 – 2300 MPa

OTHER	TEST METHOD	IMPERIAL	METRIC
Shore Hardness	D-2240	75 – 85 Scale D	75 – 85 Scale D
HDT, @ 0.45 MPa	D-648-06	108 – 122 °F	42 – 50 °C
Izod Notched Impact	D-256-06	0.375 – 0.562 Lb/in	20 – 30 J/m

SYSTEM AVAILABILITY	SOFTWARE	SUPPORT STRUCTURE	LAYER THICKNESS CAPABILITY	AVAILABLE COLORS
Stratasys J750™	GrabCad Print™ 1.7	SUP706 (soluble)	<b>High Quality mode:</b> 14 microns (0.00055 in.)  <b>High Speed mode:</b> 27 microns (0.001 in.)	<ul style="list-style-type: none"> <li>VeroFlex Cyan™ (OBJ-03341)</li> <li>VeroFlex Magenta™ (OBJ-03342)</li> <li>VeroFlex Yellow™ (OBJ-03343)</li> <li>VeroFlex White™ (OBJ-003344)</li> <li>VeroFlex Black™ (OBJ-003345)</li> <li>VeroFlex Clear™ (OBJ-003346)</li> </ul>



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**stratasys**

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