Enjoy super-high productivity and flexibility – with outstanding model quality

Eden350/350V

- Ultra-thin-layer PolyJet™ technology
- 16 micron high resolution ensures smooth surfaces and fine details
- Tray size: 13.8×13.8×7.9 inch (350×350×200 mm)
- Wide range of materials: FullCure® 720, Tango and Vero
- Single support for all model materials
- Office environment
- 72 hours of unattended continuous printing
- High Speed and High Quality Printing Modes
EDEN350/350V™ 16 micron layer 3-Dimensional Printing System

Technical Specifications

Layer Thickness (Z-axis):
Horizontal build layers down to 16-micron

Tray Size (X×Y×Z):
13.8×13.8×7.9 inch (350×350×200 mm)

Net Build Size (X×Y×Z):
13.4×13.4×7.9 inch (340×340×200 mm)

Build Resolution:
X-axis: 600 dpi
Y-axis: 600 dpi
Z-axis: 1600 dpi

Printing Modes:
EDEN350: High Quality (HQ): 0.0006 inch (16-micron)
EDEN350V: High Quality (HQ): 0.0006 inch (16-micron)
High Speed (HS): 0.001 inch (30-micron)

Accuracy:
0.004–0.01 inch (0.1–0.3 mm) typical
(accuracy varies according to geometry, part orientation and print size)

Material Supported
• FullCure®720 Model transparent
• VeroWhite Opaque material
• VeroBlue Opaque material
• VeroBlack Opaque material
• TangoBlack, rubber like flexible material
• TangoGray, rubber like flexible material

Support Type
FullCure®705 Support
Non-toxic gel-like photopolymer support easily removed by Waterjet

Material Cartridges
EDEN350: Sealed 2×7.9 lb. (2×3.6 kg) cartridges
EDEN350V: Sealed 4×7.9 lb. (4×3.6 kg) cartridges

Automatic switching between cartridges
Easily and instantly replaced through front-loading door

Power Requirements
110 – 240 VAC 50/60 Hz
1.5 KW single phase

Machine Dimensions (W×D×H)
52×39×47 inch (1320×990×1200 mm)

Software
Objet Studio™ features:
• Suggested build orientation and speed,
• Auto-placement
• Automatic real time support structure generation
• Slice on the fly
• PolyLog™ Materials Management
• Network Support

Input Format
STL and SLC File

Operational Environment
Temperature 64 °F – 77 °F (18 °C – 25 °C)
Relative Humidity 30–70%

Special Facility Requirements – None

Jetting Heads
SHR (Single Head Replacement), 8 units

Network Communication
LAN – TCP/IP

Compatibility
Windows XP, Windows 2000

* All specifications are subject to change without notice

About Objet Geometries
A pioneer in jetting photopolymers, Objet Geometries Ltd. develops, manufactures and globally markets ultra-thin layer 3-Dimensional Printing Systems and materials that utilize PolyJet™ Polymer Jetting technology. Polyjet technology and Objet’s high-speed product platform offer accurate, clean, smooth and highly detailed 3-Dimensional models suitable for use in an office-type facility. Polyjet technology enables manufacturers and industrial designers to reduce product development cycles and dramatically shorten time-to-market of new products in many industries. Objet’s solutions are in use by world leaders in the automotive, electronics, toy, consumer goods, and footwear industries in North America, Europe, Asia, Australia and Japan. Founded in 1998, Objet is privately owned and holds more than 40 granted and pending patents.

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Support your Applications

The FullCure® line of photopolymer resins open up a whole world of possibilities for users of 3-dimensional printings.

Based on Objet’s unique ultra-thin-layer Polyjet™ technology, Fullcure® resins are used to create accurate, highly detailed three-dimensional models for a wide range of applications. Unlike models created by other technologies, Objet-made parts are fully cured during the build process and can be handled immediately after build.

The FullCure® line includes several types of flexible and rigid model materials. The FullCure® support material enables users to produce any geometry, including overhangs and undercuts.

The FullCure® line currently includes the following materials, with more to come in the near future:

FullCure®720 - General-purpose resin, offers excellent technical properties in a transparent color.

Vero materials - Feature opaque colors and improved machanical properties, offering users excellent detail visualization and even wider range of applications.

Tango materials - Offer users highly flexible materials with different levels of elasticity, enabling a close “touch and feel” match for any design.

Key Advantages

- Elongation at break of 20% for rigid models enables fit and function.
- Excellent impact strength.
- Models ready to use, no extra finishing required.
- Models can be handled right off the tray.
- Easy to remove gel-like support material ensures no hard grid edges.
- Paint readily adheres to model surfaces
- High accuracy models.
<table>
<thead>
<tr>
<th>Properties</th>
<th>Standard Procedure</th>
<th>FullCure® 720</th>
<th>VeroWhite</th>
<th>VeroBlue</th>
<th>VeroBlack</th>
<th>TangoBlack</th>
<th>TangoGray</th>
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</thead>
<tbody>
<tr>
<td>Tensile Strength MPa</td>
<td>D-638</td>
<td>60.3</td>
<td>49.8</td>
<td>55.1</td>
<td>50.7</td>
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<td>-</td>
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<tr>
<td>Elongation at break, %</td>
<td>D-638</td>
<td>15%-25%</td>
<td>15%-25%</td>
<td>15%-25%</td>
<td>17.7%</td>
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<td>Modulus of Elasticity, MPa</td>
<td>D-638</td>
<td>2,870.0</td>
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<td>Flexural Strength, MPa</td>
<td>D790</td>
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<td>Flexural Modulus, MPa</td>
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<td>1,718.0</td>
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<td>Izod Notched Impact, J/m</td>
<td>D256</td>
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<td>37.5</td>
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<td>Compression Strength, MPa</td>
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<td>SHORE</td>
<td>Scale D</td>
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<td>Heat Distortion Temperature, °C</td>
<td>D648 @ 0.45Mpa</td>
<td>48.4</td>
<td>47.6</td>
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<td></td>
<td>@ 1.82Mpa</td>
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<td>Tg, °C</td>
<td>DMA, E”</td>
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<td>58.0</td>
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<td>Ash Content</td>
<td>&lt;0.01%</td>
<td>&lt;0.40%</td>
<td>&lt;0.30%</td>
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</tbody>
</table>

Tensile Strength MPa: ASTM D - 412
Elongation at break, %: ASTM D - 412
Compression set, %: ASTM D - 395
SHORE A Hardness, Deg: ASTM D - 2240
Tensile Tear Resistance, Kg/cm: ASTM D - 624
Tg, °C: DSC (-80 °C +100 °C)