



# Objet350

## CONNEX

### Build mid-sized prototypes in multiple materials.

Using pioneering PolyJet™ multi-material 3D printing technology, the Objet350 Connex™ creates stunning prototypes that are amazingly similar to finished products. The Objet350 Connex prints as many as 14 material properties simultaneously in a single part, to eliminate time-consuming assembly.

With its 350 x 350 x 200 mm (13.8 x 13.8 x 7.9 in) build tray, the Objet350 Connex gives you the power to prototype complex, assembled products. Like all Connex™ 3D Printers, it offers outstanding 16-micron, high-resolution layers for printing complex geometries, smooth surfaces and thin walls.

### Freedom to select your own materials.

From an unrivalled range of more than 120 materials, including more than 100 Digital Materials™ created as the model prints, the Objet350 Connex enables you to simulate diverse mechanical and physical properties, from rubber to rigid; opaque to transparent; and standard to ABS-grade.

### Print over 100 digital materials.

The Objet350 Connex 3D Printer can print more than 100 digital materials, including:

- **Digital ABS™** (RGD5130, RGD5131, RGD5160, RGD5161) simulates ABS engineering plastics by combining high-temperature resistance with toughness. Digital ABS2™ matches those properties and provides enhanced dimensional stability in walls thinner than 1.2 mm (.047 in).
- **High Temperature material** for advanced functional testing, hot air and water flow, and static applications
- **Transparent shades and patterns**
- **Rigid Opaque shades**
- **Different shore value rubber-like materials**
- **Simulated Polypropylene with improved thermal resistance**



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## PRODUCT SPECIFICATIONS

### Model Materials:

- Transparent rigid (VeroClear)
- Rubber-like (Tango family) including black & translucent
- Transparent general-purpose (RGD720)
- Rigid Opaque (Vero family)
- Simulated Polypropylene (Rigur & Durus)

### Digital Model Materials:

- Transparent shades & patterns
- Rigid Opaque shades
- Rubber-like blends in a range of Shore A values
- Simulated Polypropylene materials with improved heat resistance

### Support Material:

FullCure® 705 non-toxic gel-like photopolymer support

**Build Size:** 342 x 342 x 200 mm  
(13.4 x 13.4 x 7.9 in)

### Layer Thickness:

Horizontal build layers down to 16-microns  
(0.0006 in)

**Workstation Compatibility:** Windows 7

**Network Connectivity:** LAN – TCP/IP

**Size and Weight:** Objet350 Connex: 1420 x 1120 x 1130 mm (55.9 x 44.1 x 44.5 in)  
500 kg (1102 lbs)

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

**Regulatory Compliance:** CE, FCC

### Special Facility Requirements:

Temperature 18-25 °C (64-77 °F); relative humidity 30-70% (non-condensing)

## MID-SIZED MULTI-MATERIAL 3D PRINTING NEVER LOOKED BETTER.

### Freedom to select your own materials.

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### Base materials include:

- **Transparent material** (VeroClear™) a nearly colorless material for fit and form testing of detailed transparent parts and models that mimics transparent thermoplastics like poly(methyl methacrylate) (PMMA)
- **Rubber-like materials** (Tango family) suitable for a range of applications requiring non-slip or soft surfaces
- **Transparent material** (RGD720) for standard plastics simulation requiring dimensional stability and smooth surfaces
- **Rigid Opaque materials** (Vero family) in a variety of colors including white, gray, blue and black
- **Simulated Polypropylene materials** (Rigur™ & Durus™) for polypropylene-like snap fit applications, flexible closures and living hinges, reusable

### Backed by proven PolyJet technology.

The Objet350 Connex employs proven PolyJet technology. PolyJet 3D Printing is similar to inkjet document printing. But instead of jetting drops of ink onto paper, PolyJet 3D Printers jet layers of liquid photopolymer onto a build tray and cure them with UV light. The layers build up one at a time to create a 3D model or prototype. Fully-cured models can be handled and used immediately, without additional post-curing. Along with the selected model materials, the 3D printer also jets a gel-like support material specially designed to uphold overhangs and complicated geometries. It is easily removed using a WaterJet.

PolyJet 3D Printing technology has many advantages for rapid prototyping, including professional quality and speed, high precision, and a wide variety of materials. PolyJet technology is a perfect solution for precision prototyping needs and sets the standard for finished-product realism.

### Objet350 Connex Makes 3D Printing As Easy As 1-2-3.

1. **Prepare the file.** Create your 3D model with 3D CAD software, then open Objet Studio™ software, upload the STL file and click “print.” Objet Studio converts your STL file into 3D model print paths – including support structures.
2. **Print your model.** PolyJet technology makes it possible to build your 3D model and its support material – layer by layer – from the bottom up.
3. **Remove supports.** Take your printed model out of the printer’s build chamber and easily remove support material using a WaterJet.

**stratasys**

E info@stratasys.com / STRATASYS.COM

ISO 9001:2008 Certified

### HEADQUARTERS

7665 Commerce Way, Eden Prairie, MN 55344  
+1 800 801 6491 (US Toll Free)  
+1 952 937 3000 (Intl)  
+1 952 937 0070 (Fax)

2 Holtzman St., Science Park, PO Box 2496  
Rehovot 76124, Israel  
+972 74 745 4000  
+972 74 745 5000 (Fax)

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