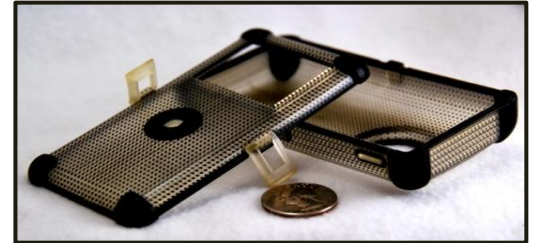


Objet's FullCure® acrylic-based photopolymer materials enables users to create highly accurate, finely detailed 3D models and parts for a wide range of Rapid Prototyping and Rapid Manufacturing applications. Based on Objet PolyJet™ Technology, FullCure materials produce fully cured models that can be handled immediately after being built. The wide variety of materials within the FullCure materials family, including transparent, colored, opaque, flexible and rigid properties, enables models that meet a wide range of fit, form, and functional requirements. Based on PolyJet Technology, that is utilized on Connex family multi material 3D printers, FullCure materials are used in specific concentrations and structures to generate composite Digital Materials™ with improved mechanical and thermal properties. This wide flexibility of the equipment allows us to create digital single and/or multi-material parts, resulting in parts with up to 11 different material properties at the same time.



TangoBlackPlus & VeroWhite

Properties	ASTM	Units	DM 9840	DM 9850	DM 9860	DM 9870	DM 9885	DM 9895	FLEXIBLE
Tensile Strength	D-412	Mpa	1	1	3	3	6	20	
Elongation to Break	D-412	%	160	140	90	60	55	30	
Tensile Tear Resistance	D-624 Die C	N/mm	5	6	8	13	26	46	
Hardness Shore A	D-2240		40	50	60	70	85	95	
Color			Black	Black	Black	Black	Dark Gray	Dark Gray	

TangoBlackPlus & VeroWhite

Properties	ASTM	Units	DM 8510	DM 8520	DM 8530	RIGID
Tensile Strength	D-638-03	Mpa	49	44	39	
Modulus of Elasticity	D-638-04	Mpa	2350	2150	1750	
Elongation to Break	D-638-05	%	35-45	50-60	60-70	
Flexural Strength	D-790-03	Mpa	67	54	48	
Flexural Modulus	D-790-04	Mpa	2050	1700	1550	
HDT at 0.45 Mpa	D-648-06	°C	44	41	41	
Notched Izod Impact	D-256-06	J/m	25	25	25	
Color			Gray	Gray	Gray	

Tango+ & VeroWhite

Properties	ASTM	Units	DM 9740	DM 9750	DM 9760	DM 9770	DM 9785	DM 9795	FLEXIBLE
Tensile Strength	D-412	Mpa	1	1	3	3	6	20	
Elongation to Break	D-412	%	160	140	90	60	55	30	
Tensile Tear Resistance	D-624 Die C	N/mm	5	6	8	13	26	46	
Hardness Shore A	D-2240		40	50	60	70	85	95	
Color			Off-White	Off-White	Off-White	Off-White	Off-White	Off-White	

Tango+ & VeroWhite

Properties	ASTM	Units	DM 8410	DM 8420	DM 8430	RIGID
Tensile Strength	D-638-03	Mpa	49	44	39	
Modulus of Elasticity	D-638-04	Mpa	2350	2150	1750	
Elongation to Break	D-638-05	%	35-45	50-60	60-70	
Flexural Strength	D-790-03	Mpa	67	54	48	
Flexural Modulus	D-790-04	Mpa	2050	1700	1550	
HDT at 0.45 Mpa	D-648-06	°C	44	41	41	
Notched Izod Impact	D-256-06	J/m	25	25	25	
Color			Off-White	Off-White	Off-White	

All tolerances:

English:

First inch: +/- .005 in

Every inch after: +/- .001 in

Metric:

First cm: +/- .127mm

Every cm after: +/- .025 mm



Digital Materials (General)

Fullcure720 + VeroBlack					
Properties	ASTM	Units	DM_Dots_7513	DM_Grid_7523	RIGID
Tensile Strength	D-638-03	Mpa	60.3	60.3	
Modulus of Elasticity	D-638-04	Mpa	2870	2870	
Elongation to Break	D-638-05	%	20	20	
Flexural Strength	D-790-03	Mpa	75.8	75.8	
Flexural Modulus	D-790-04	Mpa	1718	1718	
HDT at 0.45 Mpa	D-648-06	°C	48.4	48.4	
Notched Izod Impact	D-256-06	J/m	23.6	23.6	
Appearance			Black Dots	Black Grid	

*Other digital blends and colors available. Call for information.

At the core:

Advanced Polyjet Technology

Connex500™ is the first 3D printing system that offers the ability to print parts and assemblies made of multiple model materials, with different mechanical or physical properties, all in a single build. By printing with Digital Materials, the Connex500™ allows you to print parts with specific Shore A values to match the values of the intended production materials. This capability opens up new opportunities, bringing you much closer to realizing the final product at an early stage, including feasibility testing and over-molding process simulation.

Real Accuracy

PolyJet technology uses a jetting head that slides back and forth along the X-axis to accurately build each layer at 16 microns (0.0006 inches) thick. 32 microns in digital mode.

Get your benchmark on the future of manufacturing

Fine details. Smooth surface finishes. Accuracy. Strength. The best way to see the advantages of a Connex machine is to have your own part built on this system today! Get your parts at www.growit3d.com.

About GROWit

GROWit™ is a privately held additive manufacturing company located in Irvine, California, dedicated to improving design through engineering and rapid prototyping. We strive to be at the cutting edge, bringing both knowledge and resources directly to customers. With our team of engineers, we help guide customers to the process that best suits their specific application, without holding a bias to a specific platform or technology.

Why do we call ourselves GROWit? Due to the layer-by-layer nature of rapid prototyping, a part often looks like it is growing within the machine – just like a plant grows from the ground. Rather than using the terms “building” or “fabricating”, the term “growing” is commonly used within the industry; thus the origin of our name, GROWit.

GROWit

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