

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.

### General Purpose Family

Transparent - FullCure720 General-purpose transparent material, offering excellent properties including Tensile Strength of 60 MPa, Flexural Strength of 76MPa and HDT at 0.45MPa of 48C. One of the lowest cost materials available for PolyJet™.



FullCure720					
Property	ASTM	Metric		Imperial	
Tensile Strength	D-638-03	Mpa	60	psi	8744
Modulus of Elasticity	D-638-04	Mpa	2870	psi	416150
Elongation at Break	D-638-05	%	20	%	20
Flexural Strength	D-790-03	Mpa	76	psi	10991
Flexural Modulus	D-790-04	Mpa	1718	psi	249110
Izod Notched Impact	D-256-06	J/m	24	ft lb/in	0.4
Shore Hardness	Scale D	Scale D	83	Scale D	83
Rockwell Hardness	Scale M	Scale M	81	Scale M	81
HDT at 0.45 Mpa	D-648-06	°C	48	°F	119
HDT at 1.82 Mpa	D-648-07	°C	44	°F	112
Tg	DMA, E"	°C	49	°F	120
Ash Content	USP 28	%	<0.03	%	<0.03
Water Absorption	D570-98 24 Hr	%	1.53	%	1.53
Typical achievable tolerance	-	First cm: +/- .127mm; Every cm after: +/- .025 mm		First Inch: +/- .005; Each Inch after +/- .001 in	



## Fullcure720

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### 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.

### 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](http://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.

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