

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.

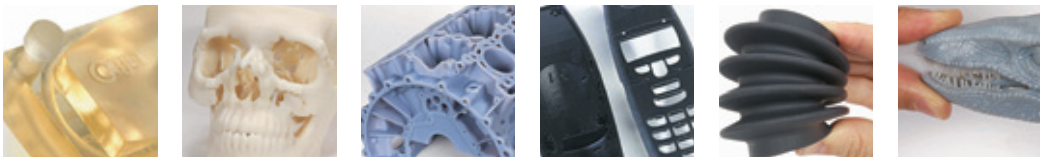
The FullCure® line includes several types of flexible and rigid model materials. The FullCure® support material enables users to produce any geometry, including overhangs and undercuts.

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 mechanical 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.

FullCure®



FULLCURE® FullCure® Materials Datasheet



Properties	Standard	Procedure	FullCure® 720	VeroWhite	VeroBlue	VeroBlack	TangoBlack	TangoGray
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Tensile Strength MPa	D-638	60.3	49.8	55.1	50.7	-	-	-
Elongation at break, %	D-638	15%-25%	15%-25%	15%-25%	17.7%	-	-	-
Modulus of Elasticity, MPa	D-638	2,870.0	2,495.0	2,740.0	2,192.0	-	-	-
Flexural Strength, MPa	D790	75.8	74.6	83.6	79.6	-	-	-
Flexural Modulus, MPa	D790	1,718.0	2,137.0	1,983.0	2,276.0	-	-	-
Izod Notched Impact, J/m	D256	39.6	37.5	42.5	-	-	-	-
Compression Strength, MPa	D695	84.3	-	79.3	-	-	-	-
SHORE	Scale D	83.0	83.0	83.0	83.0	-	-	-
Rockwell	Scale M	81.0	81.0	81.0	-	-	-	-
Heat Distortion Temperature, °C	D648 @ 0.45Mpa	48.4	47.6	48.8	47	-	-	-
	@ 1.82Mpa	44.4	43.6	44.8	42.9	-	-	-
Tg, °C	DMA, E"	48.7	58.0	48.7	62.7	-	-	-
Ash Content		<0.01%	<0.40%	<0.30%	-	-	-	-
Tensile Strength MPa	ASTM D - 412	-	-	-	-	2.0	4.36	-
Elongation at break, %	ASTM D - 412	-	-	-	-	47.7	47.0	-
Compression set, %	ASTM D - 395	-	-	-	-	0.8	1.0	-
SHORE A Hardness, Deg	ASTM D - 2240	-	-	-	-	61.0	75.0	-
Tensile Tear Resistance, Kg/cm	ASTM D - 624	-	-	-	-	3.8	9.5	-
Tg, °C	DSC (-80 °C +100 °C)	-	-	-	-	-10.7	+2.6	-

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