



FullCure Materials

Support Your Application

- Elongation at break of 20% and 44% for rigid models enables fit and function
- Elongation at break of 47% and 218% for rubber-like materials
- Models ready to use, no extra finishing required
- Models can be handled right off the tray
- Paint readily adheres to model surfaces
- Easy to remove gellike support material ensures no hard grid edges
- Single support material for all materials
- High accuracy models

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:

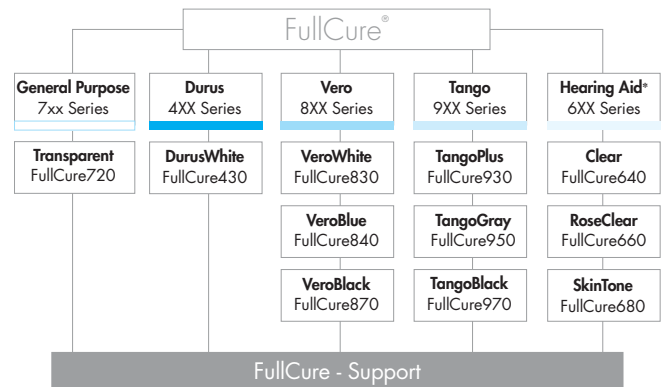
FullCure®720 - General-purpose resin, offers excellent technical properties in a transparent color.

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.
- Elongation at break of 47% and 218% for rubber-like materials.
- Models ready to use, no extra finishing required.
- Models can be handled right off the tray.
- Paint readily adheres to model surfaces.
- Easy to remove gel-like support materials ensures no hard grid edges.
- Single support material for all materials.
- High accuracy models.



*See Objet Hearing Aid brochure

Tango

TangoPlus - FullCure930

Property	ASTM	Metric		Imperial	
Tensile Strength at Break	D-412	MPa	1.455	psi	211
Tensile Modulus at 20% Strain	D-413	MPa	0.146	psi	21
Tensile Modulus at 30% Strain	D-414	MPa	0.185	psi	27
Tensile Modulus at 50% Strain	D-415	MPa	0.263	psi	38
Elongation at Break	D-412	%	218	%	218.0
Compressive Set, 22 Hr, 750C	D-395	%	4.4	%	4.4
Shore A Hardness	D-2240	Scale A	27	Scale A	27
Ross Flex	D-1052		Above 150,000		Above 150,000
Tensile Tear Resistance	D-624	Kg/cm	3.47	Lb/in	20
Tg	DSC (-80°C+100°C)	C°	-9.6	F°	15



TangoGray - FullCure950

Property	ASTM	Metric		Imperial	
Tensile Strength	D-412	MPa	4.36	psi	632
Elongation at Break	D-412	%	47	%	47.0
Compressive Set	D-395	%	1	%	1
Shore A Hardness	D-2240	Scale A	75	Scale A	75
Tensile Tear Resistance	D-624	Kg/cm	9.5	Lb/in	54
Tg	DSC (-80°C+100°C)	C°	2.6	F°	37



TangoBlack - FullCure970

Property	ASTM	Metric		Imperial	
Tensile Strength	D-412	MPa	2	psi	290
Elongation at Break	D-412	%	47.7	%	47.7
Compressive Set	D-395	%	0.8	%	1
Shore A Hardness	D-2240	Scale A	61	Scale A	61
Tensile Tear Resistance	D-624	Kg/cm	3.8	Lb/in	21
Tg	DSC (-80°C+100°C)	C°	-10.7	F°	13





Vero

VeroWhite - FullCure830

Property	ASTM	Metric		Imperial	
Tensile Strength	D-638-03	MPa	49.8	psi	7221
Modulus of Elasticity	D-638-04	MPa	2495	psi	361775
Elongation at Break	D-638-05	%	20	%	20
Flexural Strength	D-790-03	MPa	74.6	psi	10817
Flexural Modulus	D-790-04	MPa	2137	psi	309865
Izod Notched Impact	D-256-06	J/m	24.1	ft lb/in	0.45
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°	43	F°	109
HDT at 1.82 MPa	D-648-07	C°	40	F°	104
Tg	DMA, E"	C°	58	F°	136
Ash Content	NA	%	<0.4	%	<0.4
Water Absorption	D570-98 24 Hr	%	1.15	%	1.15



VeroBlue - FullCure840

Property	ASTM	Metric		Imperial	
Tensile Strength	D-638-03	MPa	55.1	psi	7990
Modulus of Elasticity	D-638-04	MPa	2740	psi	397300
Elongation at Break	D-638-05	%	20	%	20
Flexural Strength	D-790-03	MPa	83.6	psi	12122
Flexural Modulus	D-790-04	MPa	1983	psi	287535
Compressive Strength	D-695-02	MPa	79.3	psi	11499
Izod Notched Impact	D-256-06	J/m	23.6	ft lb/in	0.44
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°	48.8	F°	120
HDT at 1.82 MPa	D-648-07	C°	44.8	F°	113
Tg	DMA, E"	C°	48.7	F°	120
Ash Content	NA	%	<0.3	%	<0.3
Water Absorption	D570-98 24 Hr	%	1.54	%	1.54



VeroBlack - FullCure870

Property	ASTM	Metric		Imperial	
Tensile Strength	D-638-03	MPa	50.7	psi	7352
Modulus of Elasticity	D-638-04	MPa	2192	psi	317840
Elongation at Break	D-638-05	%	17.7	%	18
Flexural Strength	D-790-03	MPa	79.6	psi	11542
Flexural Modulus	D-790-04	MPa	2276	psi	330020
Izod Notched Impact	D-256-06	J/m	23.9	ft lb/in	0.45
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°	47	F°	117
HDT at 1.82 MPa	D-648-07	C°	42.9	F°	109
Tg	DMA, E"	C°	62.7	F°	145
Water Absorption	D570-98 24 Hr	%	1.01	%	1.01



General Purpose

FullCure720

Property	ASTM	Metric		Imperial	
Tensile Strength	D-638-03	MPa	60.3	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	75.8	psi	10991
Flexural Modulus	D-790-04	MPa	1718	psi	249110
Compressive Strength	D-695-02	MPa	84.3	psi	12224
Izod Notched Impact	D-256-06	J/m	23.6	ft lb/in	0.44
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°	48.4	F°	119
HDT at 1.82 MPa	D-648-07	C°	44.4	F°	112
Tg	DMA, E"	C°	48.7	F°	120
Ash Content	NA	%	<0.01	%	<0.01
Water Absorption	D570-98 24 Hr	%	1.53	%	1.53



Durus

DurusWhite - FullCure430

Property	ASTM	Metric		Imperial	
Tensile Strength	D-638-03	MPa	21.3	psi	3089
Modulus of Elasticity	D-638-04	MPa	1135.8	psi	164691
Elongation at Break	D-638-05	%	44.2	%	44
Flexural Strength	D-790-03	MPa	33.2	psi	4814
Flexural Modulus	D-790-04	MPa	1026.1	psi	148785
Compressive Strength	D-695-02	MPa	30.7	psi	4452
Izod Notched Impact	D-256-06	J/m	44.22	ft lb/in	0.83
Shore Hardness	D-2240-03	Scale D	76	Scale D	76
Rockwell Hardness	D-785-03	Scale M	97	Scale M	97
HDT at 0.45 MPa	D-648-06	C°	36.3	F°	98
HDT at 1.82 MPa	D-648-07	C°	32.6	F°	91
Tg	DMA, E"	C°	35.9	F°	97
Water Absorption	D570-98 24 Hr	%	1.69	%	1.69



Objet Geometries Ltd. Headquarters

2 Holzman st.,
Science Park,
P.O Box 2496,
Rehovot 76124, Israel
T: +972-8-931-4314
F: +972-8-931-4315

Objet Geometries Inc. North America

5 Fortune Drive
Billerica,
MA 01821
USA
T: +1-877-489-9449
F: +1-866-676-1533

Objet Geometries GMBH

Im Leuschnerpark 4,
64347 Griesheim
Germany
T: +49-6155-605-346
F: +49-6155-605-344

Objet Geometries AP Asia Pacific

13th floor, Unit52A,
HITEC
1 Trademart Drive
Kowloon Bay, Hong Kong
T: +852-217-40111
F: +852-217-40555

Objet Geometries AP Limited China Rep Office

Rm1220, CIMIC Tower,
1090 Century Blvd,
Pudong Shanghai
2000120 P. R. China
T: +86-21-5836-2468
F: +86-21-5836-2469

info@objet.com www.objet.com

© 2008 Objet, Quadra, QuadraTempo, PolyJet, FullCure, SHR, Eden, Eden250, Eden260, Eden330, Eden350, Eden350V, Eden500V, Job Manager, Objet Studio, Connex, Connex500, PolyLog, TangoBlack, TangoGray, TangoPlus, VeroBlue, VeroWhite, VeroBlack, Digital Materials and PolyJet Matrix are trademarks of Objet Geometries Ltd. and may be registered in certain jurisdictions. All other trademarks belong to their respective owners.

