



Digital Materials™ Data Sheets

Rigid Opaque Materials

Primary material: Objet VeroWhitePlus RGD835
Secondary material: Objet VeroBlackPlus RGD875

Property	ASTM	Units	RGD8310-DM, RGD8320-DM, RGD8330-DM
Tensile strength	D-638-03	MPa	50-65
Elongation at break	D-638-05	%	10-25
Modulus of elasticity	D-638-04	MPa	2000-3000
Flexural Strength	D-790-03	MPa	75-110
Flexural Modulus	D-790-04	MPa	2200-3200
HDT, °C @ 0.45MPa	D-648-06	°C	45-50
Izod Notched Impact	D-256-06	J/m	20-30

Primary material: Objet VeroWhitePlus RGD835
Secondary material: Objet TangoBlackPlus FLX980 / TangoPlus FLX930

Property	ASTM	Units	RGD8505-DM RGD8510-DM RGD8515-DM RGD8520-DM	RGD8525-DM RGD8425-DM (only Objet TangoPlus FLX930)
Tensile strength	D-638-03	MPa	40-60	35-45
Elongation at break	D-638-05	%	15-25	20-30
Modulus of elasticity	D-638-04	MPa	1700-2300	1400-2000
Flexural Strength	D-790-03	MPa	55-75	45-60
Flexural Modulus	D-790-04	MPa	1500-2500	1400-1800
HDT, °C @ 0.45MPa	D-648-06	°C	40-45	40-43

Primary material: Objet High Temperature RGD525
Secondary material: Objet TangoBlackPlus FLX980

Property	ASTM	Units	RGD5205-DM RGD5210-DM RGD5215-DM RGD5220-DM RGD5225-DM	RGD5250-DM*
Tensile Strength	D-638-03	MPa	43-55	50-56
Elongation at Break	D-638-05	%	9-15	18-27
Modulus of Elasticity	D-638-04	MPa	1600-2700	1700-2400
Flexural Strength	D-790-03	MPa	50-100	47-70
Flexural Modulus	D-790-04	MPa	1700-2700	1400-2000
HDT, °C @ 0.45MPa	D-648-06	°C	46-60	50-56
Izod Notched Impact	D-256-06	J/m	16-19	16-26

Primary material: Objet VeroBlue RGD840
Secondary material: Objet VeroBlackPlus RGD875

Property	ASTM	Units	RGD8210-DM
Tensile strength	D-638-03	MPa	50-60
Elongation at break	D-638-05	%	15-25
Modulus of elasticity	D-638-04	MPa	2000-3000
Flexural Strength	D-790-03	MPa	60-70
Flexural Modulus	D-790-04	MPa	1900-2500
HDT, °C @ 0.45MPa	D-648-06	°C	45-50
Izod Notched Impact	D-256-06	J/m	20-30

Primary material: Objet VeroBlackPlus RGD875
Secondary material: Objet TangoBlackPlus FLX980 / TangoPlus FLX930

Property	ASTM	Units	RGD8555-DM, RGD8455-DM
Tensile strength	D-638-03	MPa	35-45
Elongation at break	D-638-05	%	20-30
Modulus of elasticity	D-638-04	MPa	1400-2000
Flexural Strength	D-790-03	MPa	45-60
Flexural Modulus	D-790-04	MPa	1400-1800
HDT, °C @ 0.45MPa	D-648-06	°C	40-43
Izod Notched Impact	D-256-06	J/m	25-35

Primary material: Objet High Temperature RGD525
Secondary material: Objet TangoPlus FLX930

Property	ASTM	Units	RGD5150-DM
Tensile strength	D-638-03	MPa	45-60
Elongation at break	D-638-05	%	18-27
Modulus of elasticity	D-638-04	MPa	1700-2400
Flexural Strength	D-790-03	MPa	47-70
Flexural Modulus	D-790-04	MPa	1400-2000
HDT, °C @ 0.45MPa	D-648-06	°C	50-56
Izod Notched Impact	D-256-06	J/m	16-26

* Objet Vero-like DM with higher temperature resistance

Transparent Materials

Primary material: Objet FullCure720
Secondary material: Objet VeroBlackPlus RGD875

Property	ASTM	Units	RGD7513-DM (Dots) RGD7523-DM (Grid)
Tensile strength	D-638-03	MPa	50-65
Elongation at break	D-638-05	%	15-25
Modulus of elasticity	D-638-04	MPa	2000-3000
Flexural Strength	D-790-03	MPa	80-110
Flexural Modulus	D-790-04	MPa	2700-3300
HDT, °C @ 0.45MPa	D-648-06	°C	45-50
Izod Notched Impact	D-256-06	J/m	20-30

Primary material: Objet FullCure720
Secondary material: Objet TangoBlack FLX973

Property	ASTM	Units	RGD7210-DM	RGD7220-DM	RGD7230-DM
Tensile strength	D-638-03	MPa	50-55	50-55	45-50
Elongation at break	D-638-05	%	15-25	15-25	15-25
Modulus of elasticity	D-638-04	MPa	2200-2500	2000-2300	1700-2000
Flexural Strength	D-790-03	MPa	80-90	75-85	70-80
Flexural Modulus	D-790-04	MPa	2300-2700	2200-2600	2100-2400
HDT, °C @ 0.45MPa	D-648-06	°C	45-50	45-50	45-50

Primary material: Objet VeroClear RGD810
Secondary material: Objet TangoPlus FLX930 / TangoBlackPlus FLX980

Property	ASTM	Units	RGD8705-DM RGD8710-DM RGD8715-DM RGD8720-DM	RGD8625-DM RGD8725-DM
Tensile strength	D-638-03	MPa	40-60	35-45
Elongation at break	D-638-05	%	15-25	20-30
Modulus of elasticity	D-638-04	MPa	1,700-2,300	1,400-2,000
Flexural Strength	D-790-03	MPa	55-75	45-60
Flexural Modulus	D-790-04	MPa	1,500-2,500	1,400-1,800
HDT, °C @ 0.45MPa	D-648-06	°C	40-45	40-43
Izod Notched Impact	D-256-06	J/m	22-35	25-35

Polypropylene-like Materials

Primary material: Objet DurusWhite RGD430
Secondary material: Objet VeroWhitePlus RGD835, VeroBlackPlus RGD875, VeroBlackPlus RGD875 or FullCure720

Property	ASTM	Units	RGD4310-DM, RGD4410-DM, RGD4510-DM, RGD4710-DM,
Tensile strength	D-638-03	MPa	30-40
Elongation at break	D-638-05	%	40-50
Modulus of elasticity	D-638-04	MPa	1200-1600
Flexural Strength	D-790-03	MPa	40-50
Flexural Modulus	D-790-04	MPa	1300-1700
HDT, °C @ 0.45MPa	D-648-06	°C	40-45
Izod Notched Impact	D-256-06	J/m	35-45

Primary material: Objet VeroWhitePlus RGD835 / Objet VeroBlackPlus RGD875
Secondary material: Objet TangoPlus FLX930 / TangoBlackPlus FLX980

Property	ASTM	Units	RGD8430-DM RGD8530-DM / RGD8460_DM RGD8560_DM
Tensile strength	D-638-03	MPa	29-38
Elongation at break	D-638-05	%	25-35
Modulus of elasticity	D-638-04	MPa	1100-1700
Flexural Strength	D-790-03	MPa	35-45
Flexural Modulus	D-790-04	MPa	1200-1500
HDT, °C @ 0.45MPa	D-648-06	°C	38-41
Izod Notched Impact	D-256-06	J/m	21-40

Primary material: Objet VeroClear RGD810
Secondary material: Objet TangoPlus FLX930 / TangoBlackPlus FLX980

Property	ASTM	Units	RGD8630_DM RGD8730_DM
Tensile strength	D-638-03	MPa	29-38
Elongation at break	D-638-05	%	25-35
Modulus of elasticity	D-638-04	MPa	1100-1700
Flexural Strength	D-790-03	MPa	35-45
Flexural Modulus	D-790-04	MPa	1200-1500
HDT, °C @ 0.45MPa	D-648-06	°C	38-41
Izod Notched Impact	D-256-06	J/m	21-40

Rubber - like Materials

Primary material: Objet TangoBlackPlus FLX980 / TangoPlus FLX930
Secondary material: Objet VeroWhitePlus RGD835

Property	ASTM	Units	FLX9840-DM FLX9740-DM	FLX9850-DM FLX9750-DM	FLX9860-DM FLX9760-DM	FLX9870-DM FLX9770-DM	FLX9885-DM FLX9785-DM	FLX9895-DM FLX9795-DM
Tensile strength	D-412	MPa	0.5-1.5	0.5-1.5	2-4	2-4	4-8	15-25
Elongation at break	D-412	%	150-170	130-150	80-100	50-70	50-60	25-35
Shore Hardness (A)	D-2240	Scale A	35-45	45-55	55-65	65-75	80-90	90-100
Tensile Tear resistance	D-624	Kg/cm	4-6	5-7	7-9	12-14	25-27	45-47

Primary material: Objet TangoGray FLX950
Secondary material: Objet TangoBlack FLX973

Property	ASTM	Units	FLX9510-DM
Tensile strength	D-412	MPa	1-3
Elongation at break	D-412	%	35-45
Shore Hardness (A)	D-2240	Scale A	60-70
Tensile Tear resistance	D-624	Kg/cm	5-7

Primary material: Objet TangoBlackPlus FLX980 / Objet TangoPlus FLX930
Secondary material: Objet VeroClear RGD810

Property	ASTM	UNIT	FLX9040-DM FLX9940-DM	FLX9050-DM FLX9950-DM	FLX9060-DM FLX9960-DM	FLX9070-DM FLX9970-DM	FLX9085-DM FLX9985-DM	FLX9095-DM FLX9995-DM
Tensile Strength	D-412	MPa	1.3-1.8	1.9-3.0	2.5-4.0	3.5-5.0	5.0-7.0	8.5-10.0
Elongation at Break	D-412	%	110-130	95-110	75-85	65-80	55-65	35-45
Hardness Shore A	D-2240	MPa	35-40	45-50	57-63	68-72	80-85	92-95
Tensile Tear Resistance	D-624-Die C	N/mm	5.5-7.5	7.5-9.5	11-13	15.5-17.5	23-25	41-44

Primary material: Objet TangoBlack FLX973
Secondary material: Objet VeroWhitePlus RGD835, VeroBlue RGD840, VeroBlackPlus RGD875, FullCure720

Property	ASTM	Units	FLX9110-DM FLX9410-DM FLX9210-DM FLX9310-DM	FLX9120-DM FLX9420-DM FLX9220-DM FLX9320-DM	FLX9130-DM FLX9430-DM FLX9230-DM FLX9330-DM
Tensile strength	D-412	MPa	2-4	3-5	7-11
Elongation at break	D-412	%	45-55	35-45	35-45
Shore Hardness (A)	D-2240	Scale A	75-85	80-90	90-100
Tensile Tear resistance	D-624	Kg/cm	7-9	13-17	45-50

Primary material: Objet TangoGray FLX950
Secondary material: Objet VeroBlackPlus RGD875

Property	ASTM	Units	FLX9610-DM
Tensile strength	D-412	MPa	9-13
Elongation at break	D-412	%	45-55
Shore Hardness (A)	D-2240	Scale A	75-85
Tensile Tear resistance	D-624	Kg/cm	45-50

Primary material: Objet TangoPlus FLX930 / TangoBlackPlus FLX980
Secondary material: Objet High Temperature RGD525

Property	ASTM	UNIT	FLX9540-DM FLX9640-DM	FLX9550-DM FLX9650-DM	FLX9560-DM FLX9660-DM	FLX9570-DM FLX9670-DM	FLX9585-DM FLX9685-DM	FLX9595-DM FLX9695-DM
Tensile Strength	D-412	MPa	1.3-1.8	2.0-2.8	2.8-4.0	3.8-4.9	6.0-7.3	9.0-12
Elongation at Break	D-412	%	100-130	80-100	60-80	50-70	35-50	27-40
Hardness Shore A	D-2240	MPa	39-41	52-55	60-67	70-78	85-87	95-96
Tensile Tear Resistance	D-624-Die C	N/mm	5.96	9.18	11	13.82	23.2	45.9

Rubber - like Materials (cont.)

Primary material: Objet TangoBlackPlus FLX980/TangoPlus FLX930
Secondary material: Objet VeroBlackPlus RGD875

Property	ASTM	Units	FLX2140-DM FLX2040-DM	FLX2150-DM FLX2050-DM	FLX2160-DM FLX2060-DM	FLX2170-DM FLX2070-DM	FLX2185-DM FLX2085-DM	FLX2195-DM FLX2095-DM
Tensile strength	D-412	MPa	1.3-1.8	1.9-3.0	2.5-4.0	3.5-5	41095	8.5-10
Elongation at break	D-412	%	110-130	95-110	75-85	65-80	55-65	35-45
Shore Hardness (A)	D-2240	Scale A	35-40	45-50	57-63	68-72	80-85	92-95
Tensile Tear resistance	D-624	Kg/cm	5.5-7.5	7.5-9.5	11.0-13.0	15.5-17.5	23-25	41-44

Objet Ltd.
Headquarters

T: +972-8-931-4314
F: +972-8-931-4315

Objet Inc.
North America

T: +1-877-489-9449
F: +1-866-676-1533

Objet GmbH
Europe

T: +49-7229-7772-0
F: +49-7229-7772-990

Objet AP
Asia Pacific

T: +852-3944-8888
F: +852-217-40555

Objet Shanghai Ltd.
China

T: +86-21-51750566
F: +86-21-58362468

Objet Japan Co. Ltd.

T: +81-43-212-3302
F: +81-43-212-3305

Objet AP
India

T: +91-124-4696939
F: +91-124-4696970

info@objet.com

www.objet.com

 [Objet Blog](#) [f](#) [in](#) [t](#) [You Tube](#)

© 2012 Objet, Objet24, Objet30, Objet30 Pro, Objet Studio, Quadra, QuadraTempo, FullCure, SHR, Eden, Eden250, Eden260, Eden260V, Eden330, Eden350, Eden350V, Eden500V, Job Manager, CADMatrix, Connex, Objet260 Connex, Connex350, Connex500, Alaris, Alaris30, PolyLog, TangoBlack, TangoGray, TangoPlus, TangoBlackPlus, VeroBlue, VeroBlack, VeroBlackPlus, VeroClear, VeroDent, VeroGray, VeroWhite, VeroWhitePlus, Durus, Digital Materials, PolyJet, PolyJet Matrix, ABS-like and ObjetGreen are trademarks or registered trademarks of Objet Ltd. and may be registered in certain jurisdictions. All other trademarks belong to their respective owners.


The Power to Create

Q4/12