



# VeroGray

## POLYJET TECHNOLOGY MATERIAL SPECIFICATIONS

### Highlights

- Light gray
- Rigid and durable
- Produces excellent fine feature detail
- Quickly and economically produces parts
- Available in two Z resolutions
  - PolyJet: 30µm (0.00118")
  - PolyJet HD: 16µm (0.00063")

### Applications

- Highly accurate presentation models
- Smaller parts with complex features
- Medical devices, electronic housings and components
- Suitable for a wide range of industries

## TYPICAL PHYSICAL PROPERTIES

MECHANICAL PROPERTIES	TEST METHOD	ENGLISH	METRIC
<b>Color/Appearance</b>	Visual	Light Gray	Light Gray
<b>Tensile Strength</b>	ASTM D638	8350 psi	58 MPa
<b>Elongation at Break</b>	ASTM D638	10% - 25%	10% - 25%
<b>Modulus of Elasticity</b>	ASTM D638	362,500 psi	2,500 MPa
<b>Flexural Strength</b>	ASTM D790	13,500 psi	93 MPa
<b>Flexural Modulus</b>	ASTM D790	392,500 psi	2,700 MPa
<b>Izod Notched Impact</b>	ASTM D256	0.47 ft-lb/in	25 J/m
<b>Shore D Hardness</b>	-	85 D	85 D
<b>Heat Deflection Temperature</b>	ASTM D648 @ 264 psi	118°F	48°C
	@ 66 psi	118°F	48°C

The information presented represents typical values intended for reference and comparison purposes only. It should not be used for design specifications or quality control purposes. End-use material performance can be impacted (+/-) by, but not limited to, part design, end-use conditions, test conditions, color etc. Actual values will vary with build conditions. Product specifications are subject to change without notice.

The performance characteristics of these materials may vary according to application, operating conditions, or end use. Each user is responsible for determining that the material is safe, lawful, and technically suitable for the intended application. StratasyS makes no warranties of any kind, express or implied, including, but not limited to, the warranties of merchantability, fitness for a particular use, or warranty against patent infringement.



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# VeroMagenta (RGD851)

RIGID OPAQUE MATERIAL SIMULATING STANDARD PLASTICS

	ASTM	UNITS	METRIC	UNITS	IMPERIAL
Tensile Strength	D-638-03	MPa	50-65	psi	7250-9450
Elongation at Break	D-638-05	%	10-25	%	10-25
Modulus of Elasticity	D-638-04	MPa	2000-3000	psi	290,000-435,000
Flexural Strength	D-790-03	MPa	75-110	psi	11000-16000
Flexural Modulus	D-790-04	MPa	2200-3200	psi	320,000-465,000
HDT, °C @ 0.45MPa	D-648-06	°C	45-50	°F	113-122
HDT, °C @ 1.82MPa	D-648-07	°C	45-50	°F	113-122
Izod Notched Impact	D-256-06	J/m	20-30	ft lb/inch	0.375-0.562
Water Absorption	D-570-98 24hr	%	1.1-1.5	%	1.1-1.5
Tg	DMA, E»	°C	52-54	°F	126-129
Shore Hardness (D)	Scale D	Scale D	83-86	Scale D	83-86
Rockwell Hardness	Scale M	Scale M	73-76	Scale M	73-76
Polymerized Density	ASTM D792	g/cm3	1.17-1.18		



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# VeroBlackPlus™ (RGD875)

RIGID OPAQUE MATERIAL SIMULATING STANDARD PLASTICS

	ASTM	UNITS	METRIC	UNITS	IMPERIAL
Tensile Strength	D-638-03	MPa	50-65	psi	7250-9450
Elongation at Break	D-638-05	%	10-25	%	10-25
Modulus of Elasticity	D-638-04	MPa	2000-3000	psi	290,000-435,000
Flexural Strength	D-790-03	MPa	75-110	psi	11000-16000
Flexural Modulus	D-790-04	MPa	2200-3200	psi	320,000-465,000
HDT, °C @ 0.45MPa	D-648-06	°C	45-50	°F	113-122
HDT, °C @ 1.82MPa	D-648-07	°C	45-50	°F	113-122
Izod Notched Impact	D-256-06	J/m	20-30	ft lb/inch	0.375-0.562
Water Absorption	D-570-98 24hr	%	1.1-1.5	%	1.1-1.5
Tg	DMA, E»	°C	52-54	°F	126-129
Shore Hardness (D)	Scale D	Scale D	83-86	Scale D	83-86
Rockwell Hardness	Scale M	Scale M	73-76	Scale M	73-76
Polymerized Density	ASTM D792	g/cm3	1.17-1.18		
Ash Content	USP281	%	0.01-0.02	%	0.01-0.02



# VeroWhitePlus™ (RGD835)

RIGID OPAQUE MATERIAL SIMULATING STANDARD PLASTICS

	ASTM	UNITS	METRIC	UNITS	IMPERIAL
Tensile Strength	D-638-03	MPa	50-65	psi	7250-9450
Elongation at Break	D-638-05	%	10-25	%	10-25
Modulus of Elasticity	D-638-04	MPa	2000-3000	psi	290,000-435,000
Flexural Strength	D-790-03	MPa	75-110	psi	11000-16000
Flexural Modulus	D-790-04	MPa	2200-3200	psi	320,000-465,000
HDT, °C @ 0.45MPa	D-648-06	°C	45-50	°F	113-122
HDT, °C @ 1.82MPa	D-648-07	°C	45-50	°F	113-122
Izod Notched Impact	D-256-06	J/m	20-30	ft lb/inch	0.375-0.562
Water Absorption	D-570-98 24hr	%	1.1-1.5	%	1.1-1.5
Tg	DMA, E»	°C	52-54	°F	126-129
Shore Hardness (D)	Scale D	Scale D	83-86	Scale D	83-86
Rockwell Hardness	Scale M	Scale M	73-76	Scale M	73-76
Polymerized Density	ASTM D792	g/cm3	1.17-1.18		
Ash Content	USP281	%	0.23-0.26	%	0.23-0.26



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# VeroYellow (RGD836)

RIGID OPAQUE MATERIAL SIMULATING STANDARD PLASTICS

	ASTM	UNITS	METRIC	UNITS	IMPERIAL
Tensile Strength	D-638-03	MPa	50-65	psi	7250-9450
Elongation at Break	D-638-05	%	10-25	%	10-25
Modulus of Elasticity	D-638-04	MPa	2000-3000	psi	290,000-435,000
Flexural Strength	D-790-03	MPa	75-110	psi	11000-16000
Flexural Modulus	D-790-04	MPa	2200-3200	psi	320,000-465,000
HDT, °C @ 0.45MPa	D-648-06	°C	45-50	°F	113-122
HDT, °C @ 1.82MPa	D-648-07	°C	45-50	°F	113-122
Izod Notched Impact	D-256-06	J/m	20-30	ft lb/inch	0.375-0.562
Water Absorption	D-570-98 24hr	%	1.1-1.5	%	1.1-1.5
Tg	DMA, E»	°C	52-54	°F	126-129
Shore Hardness (D)	Scale D	Scale D	83-86	Scale D	83-86
Rockwell Hardness	Scale M	Scale M	73-76	Scale M	73-76
Polymerized Density	ASTM D792	g/cm3	1.17-1.18		



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# VeroCyan (RGD841)

RIGID OPAQUE MATERIAL SIMULATING STANDARD PLASTICS

	ASTM	UNITS	METRIC	UNITS	IMPERIAL
Tensile Strength	D-638-03	MPa	50-65	psi	7250-9450
Elongation at Break	D-638-05	%	10-25	%	10-25
Modulus of Elasticity	D-638-04	MPa	2000-3000	psi	290,000-435,000
Flexural Strength	D-790-03	MPa	75-110	psi	11000-16000
Flexural Modulus	D-790-04	MPa	2200-3200	psi	320,000-465,000
HDT, °C @ 0.45MPa	D-648-06	°C	45-50	°F	113-122
HDT, °C @ 1.82MPa	D-648-07	°C	45-50	°F	113-122
Izod Notched Impact	D-256-06	J/m	20-30	ft lb/inch	0.375-0.562
Water Absorption	D-570-98 24hr	%	1.1-1.5	%	1.1-1.5
Tg	DMA, E»	°C	52-54	°F	126-129
Shore Hardness (D)	Scale D	Scale D	83-86	Scale D	83-86
Rockwell Hardness	Scale M	Scale M	73-76	Scale M	73-76
Polymerized Density	ASTM D792	g/cm3	1.17-1.18		