

Rigid Materials

Digital ABS, Ivory (RGD5130-DM, RGD5131-DM) made of RGD515 & RGD531					
	ASTM	Units	Metric	Units	Imperial
Tensile strength	D-638-03	MPa	55-60	psi	8000-8700
Elongation at break	D-638-05	%	25-40	%	25-40
Modulus of elasticity	D-638-04	MPa	2600-3000	psi	375,000-435,000
Flexural Strength	D-790-03	MPa	65-75	psi	9,500-11,000
Flexural Modulus	D-790-04	MPa	1700-2200	psi	245,000-320,000
HDT, °C @ 0.45MPa	D-648-06	°C	58-68	°F	136-154
HDT, °C @ 0.45MPa after thermal post treatment procedure A	D-648-06	°C	82-90	°F	180-194
HDT, °C @ 0.45MPa after thermal post treatment procedure B	D-648-06	°C	92-95	°F	198-203
HDT, °C @ 1.82MPa	D-648-07	°C	51-55	°F	124-131
Izod Notched Impact	D-256-06	J/m	65-80	ft lb/inch	1.22-1.50
Tg	DMA, E _a	°C	47-53	°F	117-127
Shore Hardness (D)	Scale D	Scale D	85-87	Scale D	85-87
Rockwell Hardness	Scale M	Scale M	67-69	Scale M	67-69
Polymerized density	ASTM D792	g/cm ³	1.17-1.18		

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

Property	ASTM	Units	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
Shore hardness (D)	D2240-05	Scale D	76.1-81.7

VeroGray RGD850, VeroBlackPlus RGD875, VeroWhitePlus RGD835, VeroYellow RGD836, VeroCyan RGD841, VeroMagenta RGD851					
	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 _a	°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/cm ³	1.17-1.18		
Ash content VeroGray, VeroWhitePlus	USP281	%	0.23-0.26	%	0.23-0.26
Ash content VeroBlackPlus	USP281	%	0.01-0.02	%	0.01-0.02

Endur RGD450					
	ASTM	Units	Metric	Units	Imperial
Tensile strength	D-638-03	MPa	40-45	psi	5800-6500
Elongation at break	D-638-05	%	20-35	%	20-35
Modulus of elasticity	D-638-04	MPa	1700-2100	psi	245,000 - 305,000
Flexural Strength	D-790-03	MPa	52-59	psi	7500 - 8500
Flexural Modulus	D-790-04	MPa	1500-1700	psi	217,000 - 246,000
HDT, °C @ 0.45MPa	D-648-06	°C	49-54	°F	120-129
HDT, °C @ 1.82MPa	D-648-07	°C	45-50	°F	113-122
Izod Notched Impact	D-256-06	J/m	30-35	ft lb/inch	0.561-0.656
Tg	DMA, E _a	°C	48-52	°F	118-126
Shore Hardness (D)	Scale D	Scale D	80-84	Scale D	80-84
Rockwell Hardness	Scale M	Scale M	58-62	Scale M	58-62
Polymerized density	ASTM D792	g/cm ³	1.20-1.21		
Ash content	USP281	%	0.3-0.4	%	0.3-0.4

Flexible Materials

Primary material: TangoBlackPlus FLX980 / TangoPlus FLX930
Secondary material: 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	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
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	11-13	15.5-17.5	23-25	41-44

Primary material: TangoBlackPlus FLX980 / TangoPlus FLX930
Secondary material: 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
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	11-13	15.5-17.5	23-25	41-44

Primary material: TangoBlackPlus FLX980 / TangoPlus FLX930
Secondary material: 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	5.5-7.0	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

TangoBlackPlus FLX980 and TangoPlus FLX930					
	ASTM	Units	Metric	Units	Imperial
Tensile strength	D-412	MPa	0.8-1.5	psi	115-220
Elongation at break	D-412	%	170-220	%	170-220
Compressive set	D-395	%	4-5	%	4-5
Shore Hardness (A)	D-2240	Scale A	26-28	Scale A	26-28
Tensile Tear resistance	D-624	Kg/cm	2-4	Lb/in	18-22
Polymerized density	ASTM D792	g/cm ³	1.12-1.13		