



Digital Materials™ Data Sheets

Simulating Standard Plastics

Transparent Materials

Primary material: FullCure720 Secondary material: VeroBlack

Property	ASTM	Units	DM_Dots_7513/ DM_Grid_7523
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 : FullCure720 Secondary material : TangoBlack

Property	ASTM	Units	DM_7210	DM_7220	DM_7230
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

Rigid Opaque Materials

Primary material : VeroWhitePlus Secondary material : Veroblack

Property	ASTM	Units	DM_8310, DM_8320, DM_8330
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 : VeroBlue Secondary material : VeroBlack

Property	ASTM	Units	DM_8210
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 : VeroWhitePlus Secondary material : TangoBlackPlus

Property	ASTM	Units	DM_8505Gray20 DM_8510_Gray25 DM_8515_Gray35 DM_8520_Gray40	DM_8525_Gray50
HDT at 0.45 MPa	D-648-06	°C	40-45	40-43
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
Izod Notched Impact	D-256-06	J/m	22-35	25-35
Flexural Strength	D-790-03	MPa	55-75	45-60
Flexural Modulus	D-790-04	MPa	1500-2500	1400-1800

Primary material : VeroWhitePlus Secondary material : TangoPlus

Property	ASTM	Units	DM_8425
HDT at 0.45 MPa	D-648-06	°C	40-43
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
Izod Notched Impact	D-256-06	J/m	25-35
Flexural Strength	D-790-03	MPa	45-60
Flexural Modulus	D-790-04	MPa	1400-1800

Polypropylene-like Materials

Primary material: DurusWhite Secondary material: VeroWhitePlus, VeroBule, VeroBlack or FullCure720

Property	ASTM	Units	DM_4310	DM_4410	DM_4510	DM_4710
Tensile strength	D-638-03	MPa	30-40	30-40	30-40	30-40
Elongation at break	D-638-05	%	40-50	40-50	40-50	40-50
Modulus of elasticity	D-638-04	MPa	1200-1600	1200-1600	1200-1600	1200-1600
Flexural Strength	D-790-03	MPa	40-50	40-50	40-50	40-50
Flexural Modulus	D-790-04	MPa	1300-1700	1300-1700	1300-1700	1300-1700
HDT, °C @ 0.45MPa	D-648-06	°C	40-45	40-45	40-45	40-45
Izod Notched Impact	D-256-06	J/m	35-45	35-45	35-45	35-45

Primary material: VeroWhitePlus Secondary material: TangoBlackPlus

Property	ASTM	Units	DM_8530_Gray60
HDT at 0.45 MPa	D-648-06	°C	38-41
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
Izod Notched Impact	D-256-06	J/m	21-40
Flexural Strength	D-790-03	MPa	35-45
Flexural Modulus	D-790-04	MPa	1200-1500

Primary material : VeroWhitePlus Secondary material : TangoPlus

Property	ASTM	Units	DM_8430
HDT at 0.45 MPa	D-648-06	°C	38-41
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
Izod Notched Impact	D-256-06	J/m	21-40
Flexural Strength	D-790-03	MPa	35-45
Flexural Modulus	D-790-04	MPa	1200-1500

Rubber-like Materials

Primary material: TangoBlackPlus/TangoPlus Secondary material: VeroWhitePlus

Property	ASTM	Units	DM_9840/ 9740	DM_9850/ 9750	DM_9860/ 9760	DM_9870/ 9770	DM_9885/ 9785	DM_9895/ 9795
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 : TangoBlack Secondary material : VeroWhitePlus, VeroBlue, VeroBlack, FullCure720

Property	ASTM	Units	DM_9110/9410 9210/9310	DM_9120/9420 9220/9320	DM_9130/9430 9230/9330
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: TangoGray Secondary material: TangoBlack

Property	ASTM	Units	DM_9510
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 : TangoGray Secondary material : VeroBlack

Property	ASTM	Units	DM_9610
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



All data provided herein, which is related to consumables, was collected from specific specimens and tests conditions and is provided for information only. Characteristics may vary if different specimens and test conditions are applied. Unless expressly provided in writing, no warranties are made and warranties of merchantability or fitness for a particular purpose are expressly disclaimed.