



# Digital Materials™ Data Sheets

## Cartridges: VeroWhite, TangoBlackPlus

Primary material: VeroWhite Secondary material: TangoBlackPlus

RIGID

Property	ASTM	Units	DM_8510	DM_8520	DM_8530
Tensile Strength	D-638-03	MPa	49	44	39
Modulus of Elasticity	D-638-03	MPa	2350	2150	1750
Elongation at Break	D-638-03	%	35-45	50-60	60-70
Flexural Strength	D-790-03	MPa	67	54	48
Flexural Modulus	D-790-03	MPa	2050	1700	1550
HDT at 0.45 MPa	D-648-06	°C	44	41	41
Notched Izod Impact	D-256-06	J/m	25	25	25

Primary material: TangoBlackPlus Secondary material: VeroWhite

FLEXIBLE

Property	ASTM	Units	DM_9840	DM_9850	DM_9860	DM_9870	DM_9885	DM_9895
Tensile Strength	D-412	MPa	1	1	3	3	6	20
Elongation at Break	D-412	%	160	140	90	60	55	30
Tensile Tear Resistance	D-624 Die C	N/mm	5	6	8	13	26	46
Hardness Shore A	D-2240		40	50	60	70	85	95

## Cartridges: VeroWhite, TangoPlus

Primary material: VeroWhite Secondary material: TangoPlus

RIGID

Property	ASTM	Units	DM_8410	DM_8420	DM_8430
Tensile Strength	D-638-03	MPa	49	44	39
Modulus of Elasticity	D-638-03	MPa	2350	2150	1750
Elongation at Break	D-638-03	%	35-45	50-60	60-70
Flexural Strength	D-790-03	MPa	67	54	48
Flexural Modulus	D-790-03	MPa	2050	1700	1550
HDT at 0.45 MPa	D-648-06	°C	44	41	41
Notched Izod Impact	D-256-06	J/m	25	25	25

Primary material: TangoPlus Secondary material: VeroWhite

FLEXIBLE

Property	ASTM	Units	DM_9740	DM_9750	DM_9760	DM_9770	DM_9785	DM_9795
Tensile Strength	D-412	MPa	1	1	3	3	6	20
Elongation at Break	D-412	%	160	140	90	60	55	30
Tensile Tear Resistance	D-624 Die C	N/mm	5	6	8	13	26	46
Hardness Shore A	D-2240		40	50	60	70	85	95

## Cartridges: VeroWhite, TangoBlack

Primary material: VeroWhite Secondary material: TangoBlack

RIGID

Property	ASTM	Units	DM_8110	DM_8120	DM_8130
Tensile Strength	D-638-03	MPa	52	42	30
Modulus of Elasticity	D-638-03	MPa	2690	2400	1800
Elongation at Break	D-638-03	%	17	34	52
Flexural Strength	D-790-03	MPa	77	65	42
Flexural Modulus	D-790-03	MPa	2580	2190	1620
HDT at 0.45 MPa	D-648-06	°C	42	41	39
Notched Izod Impact	D-256-06	J/m	26	26	35

Primary material: TangoBlack Secondary material: VeroWhite

FLEXIBLE

Property	ASTM	Units	DM_9110	DM_9120	DM_9130
Tensile Strength	D-412	MPa	3	4	9
Elongation at Break	D-412	%	50	40	39
Tensile Tear Resistance	D-624 Die C	N/mm	8	15	47
Hardness Shore A	D-2240		80	85	95

## Cartridges: FullCure720, TangoBlack

Primary material: FullCure720 Secondary material: TangoBlack

RIGID

Property	ASTM	Units	DM_7210	DM_7220	DM_7230
Tensile Strength	D-638-03	MPa	56	54	47
Modulus of Elasticity	D-638-04	MPa	2300	2150	1750
Elongation at Break	D-638-05	%	15-25	15-25	15-25
Flexural Strength	D-790-03	MPa	88	84	72
Flexural Modulus	D-790-04	MPa	2500	2450	2350
HDT at 0.45 MPa	D-648-06	°C	50	49	46
Notched Izod Impact	D-256-06	J/m	24	24	24

Primary material: TangoBlack Secondary material: FullCure720

FLEXIBLE

Property	ASTM	Units	DM_9410	DM_9420	DM_9430
Tensile Strength	D-412	MPa	3	4	9
Elongation at Break	D-412	%	50	40	39
Tensile Tear Resistance	D-624 Die C	N/mm	8	15	47
Hardness Shore A	D-2240		80	85	95

**Cartridges: VeroBlue, VeroBlack****Primary material:** VeroBlue **Secondary material:** VeroBlack

RIGID

Property	ASTM	Units	DM_8110
Tensile Strength	D-638-03	MPa	48
Modulus of Elasticity	D-638-03	MPa	2750
Elongation at Break	D-638-03	%	25
Flexural Strength	D-790-03	MPa	78
Flexural Modulus	D-790-03	MPa	2570
HDT at 0.45 MPa	D-648-06	°C	41
Notched Izod Impact	D-256-06	J/m	26

**Cartridges: VeroWhite, VeroBlack****Primary material:** VeroWhite **Secondary material:** VeroBlack

RIGID

Property	ASTM	Units	DM_8310	DM_8320	DM_8330
Tensile Strength	D-638-03	MPa	48	48	48
Modulus of Elasticity	D-638-03	MPa	2750	2750	2750
Elongation at Break	D-638-03	%	25	25	25
Flexural Strength	D-790-03	MPa	78	78	78
Flexural Modulus	D-790-03	MPa	2570	2570	2570
HDT at 0.45 MPa	D-648-06	°C	41	41	41
Notched Izod Impact	D-256-06	J/m	26	26	26

**Cartridges: FullCure720, VeroBlack****Primary material:** FullCure720 **Secondary material:** VeroBlack

RIGID

Property	ASTM	Units	DM_Dots_7513	DM_Grid_7523
Tensile Strength	D-638-03	MPa	60.3	60.3
Modulus of Elasticity	D-638-04	MPa	2870	2870
Elongation at Break	D-638-05	%	20	20
Flexural Strength	D-790-03	MPa	75.8	75.8
Flexural Modulus	D-790-04	MPa	1718	1718
HDT at 0.45 MPa	D-648-06	°C	48.4	48.4
Notched Izod Impact	D-256-06	J/m	23.6	23.6

**Cartridges: DurusWhite, Vero****Primary material:** DurusWhite **Secondary material:** VeroWhite VeroBlue VeroBlack FullCure720

RIGID

Property	ASTM	Units	DM_4310	DM_4410	DM_4510	DM_4710
Tensile Strength	D-638-03	MPa	33	33	33	33
Modulus of Elasticity	D-638-04	MPa	1400	1400	1400	1400
Elongation at Break	D-638-05	%	45	45	45	45
Flexural Strength	D-790-03	MPa	43	43	43	43
Flexural Modulus	D-790-04	MPa	1500	1500	1500	1500
HDT at 0.45 MPa	D-648-06	°C	43	43	43	43
Notched Izod Impact	D-256-06	J/m	42	42	42	42

**Cartridges: TangoBlack, VeroBlue****Primary material:** TangoBlack **Secondary material:** VeroBlue

FLEXIBLE

Property	ASTM	Units	DM_9210	DM_9220	DM_9230
Tensile Strength	D-412	MPa	3	4	9
Elongation at Break	D-412	%	50	40	39
Tensile Tear Resistance	D-624 Die C	N/mm	8	15	47
Hardness Shore A	D-2240		80	85	95

**Cartridges: TangoBlack, VeroBlack****Primary material:** TangoBlack **Secondary material:** VeroBlack

FLEXIBLE

Property	ASTM	Units	DM_9310	DM_9320	DM_9330
Tensile Strength	D-412	MPa	3	4	9
Elongation at Break	D-412	%	50	40	39
Tensile Tear Resistance	D-624 Die C	N/mm	8	15	47
Hardness Shore A	D-2240		80	85	95

**Cartridges: TangoGray, TangoBlack****Primary material:** TangoGray **Secondary material:** TangoBlack

FLEXIBLE

Property	ASTM	Units	DM_9510
Tensile Strength	D-412	MPa	2
Elongation at Break	D-412	%	37
Tensile Tear Resistance	D-624 Die C	N/mm	6
Hardness Shore A	D-2240		65

**Cartridges: TangoGray, VeroBlack****Primary material:** TangoGray **Secondary material:** VeroBlack

FLEXIBLE

Property	ASTM	Units	DM_9610
Tensile Strength	D-412	MPa	11
Elongation at Break	D-412	%	49
Tensile Tear Resistance	D-624 Die C	N/mm	47
Hardness Shore A	D-2240		80

