

Materialegenskaper FFF

3D Printer LOM, laminerade plastdetaljer, PVC

Properties	Standards	Value	Units
Appearance			Transparent, amber
Tensile Strength	ISO 527-1	31	MPa
Strain at Break	ISO 527-1	180	%
Modulus of Elasticity	ISO 527-1	1630	MPa
Flexural Strength	ISO 178	44	MPa
Flexural Modulus	ISO 178	1440	MPa
Isod Notched Impact test	ISO 180	7.5	J/cm
Hardness	ISO 868	72	Shore D
HDT (1.82 MPa)	ISO 75-2	62	°C
Specific gravity	ISO 1183	1.30	g/cc

3D Printer Polyjet, Akrylbaserad fotopolymer Durus white

Properties	Standards	Value	Units
Tensile Strength	ASTM D-638-03	21	MPa
Modulus of Elasticity	ASTM D-638-04	1136	MPa
Elongation at Break	ASTM D-638-05	44	%
Flexural Strength	ASTM D-790-03	33	MPa
Flexural Modulus	ASTM D-790-04	1026	MPa
Izod Notched Impact	ASTM D-256-06	44	J/m
Shore Hardness	ASTM D-2240-03	76	Scale D
Rockwell Hardness	ASTM D-785-03	97	Scale M
HDT at 0.45 MPa	ASTM D-648-06	36	°C
HDT at 1.82 MPa	ASTM D-648-07	33	°C

Materialegenskaper FFF

High Definition SLS Lasersintrade plastdetaljer, PA 2200

Properties	Standards	Value	Units
Tensile strength	ISO 527	48	MPa
Elongation at break	ISO 527	24	%
Tensile modulus	ISO 527	1700	MPa
Charpy - Notched impact	ISO 179	4.8	kJ/m^2
Charpy - Impact strength	ISO 179	53	kJ/m^2
Flexural Strength	ISO 178	58	MPa
Flexural modulus	ISO 178	1500	MPa
Izod - Notched impact strength	ISO 180	4.4	kJ/m^2
Izod – Impact strength	ISO 180	32.8	kJ/m^2
Hardness	ISO 868	75	Shore D

High Definition SLS Lasersintrade plastdetaljer, PA 3200 GF

Properties	Standards	Value	Units
Tensile strength	ISO 527	51	MPa
Elongation at break	ISO 527	9	%
Tensile modulus	ISO 527	3200	MPa
Charpy - Notched impact	ISO 179	5.4	kJ/m^2
Charpy - Impact strength	ISO 179	35	kJ/m^2
Flexural Strength	ISO 178	73	MPa
Flexural modulus	ISO 178	2900	MPa
Izod - Notched impact strength	ISO 180	4.2	kJ/m^2
Izod – Impact strength	ISO 180	21.3	kJ/m^2
Hardness	ISO 868	80	Shore D

SLS Lasersintrade plastdetaljer, DuraForm PAGF

Properties	Standards	Value	Units
Tensile strength	ASTM D638	26	MPa
Elongation at break	ASTM D638	1.4	%
Tensile modulus	ASTM D638	4068	MPa
Flexural Strength	ASTM D790	37	MPa
Flexural modulus	ASTM D790	3106	MPa
Izod - Notched impact strength	ASTM D256	41	J/m
Izod – Impact strength	ASTM D256	123	J/m
Hardness	ASTM D2240	77	Shore D