PLA Byggemateriale 3D printer



Produktkode: 121aa
Tilgjengelighet: 2
Weight: 1.00kg

Pris: kr. 310,00

Kort beskrivelse

Dette byggestoffet er laget av mais, poteter og sukker og er mer miljøvennlig enn ABS. Objektene med PLA er stivere enn ABS, men tåler ikke høye temperatur.

Egenskaper

PLA - Created from processing any number of plant products including corn, potatoes or sugar-beets, PLA is considered a more 'earth friendly' plastic compared to petroleum based ABS. Used primarily in food packaging and containers, PLA can be composted at commercial compost facilities. It won't bio-degrade in your backyard or home compost pile however. It is naturally transparent and can be colored to various degrees of translucency and opacity. Also strong, and more rigid than ABS, it is occasionally more difficult to work with in complicated interlocking assemblies and pin-joints. Printed objects will generally have a glossier look and feel than ABS. With a little more work, PLA can also be sanded and machined. The lower melting temperature of PLA makes it unsuitable for many applications as even parts spending the day in a hot car can droop and deform.

Filament karakteristikker

All kinds of material property list										
filament	Print Temp (℃)	Bed Temp (℃)	Density (g/cm³)	Distortion Temp (℃)	Melt Flow Index (g/10min)	Tensile strength (Mpa)	Elongation at Break (%)	Bending Strength (Mpa)	Bending strength (Mpa)	IZODImpact Strength (kj/m²)
PLA	200-240	NO Heat/60-80	1.24	60	/	103	180	/	/	/
ABS	230-270	100-120	1.05	88	22 (220℃/10kg)	480	20	790	/	20
HIPS	230-270	100-120	1.04	90	5 (200℃/5kg)	23	40	43	2260	11
Nylon	250-280	100-120	1.12	75	3.5 (200℃/5kg)	65	231	85	1992	28
PC	250-280	100-120	1.2	128	6.5 (300℃/1.2kg	65	130	96	2350	/
POM	200-240	100-120	1.4	110	9	62	45	85	2700	6.5
PETG	200-240	100-120	1.27	70	/	26	120	71	2150	85
Conductive ABS	230-260	100-120	1.05	90	23 (200℃/10kg)	500		880	2700	162
Wood	180-195	NO Heat/80-100	1.254	60	5.6 (190℃/2.16k	37	6	69	3050	3
PVA	190-220	NO Heat/60-80	1.27	75	/	/	/	/	/	/
Flexible (TPU)	200-220	NO Heat/60-80	1.21	70	/	34	400	140	/	/
Flame Retardant	230-270	100-120	1.17	71	5 (200℃/5kg)	39		58.5	2135	4
Polymer Composites (Like silk)	200-220	NO Heat/60-80	1.26	65	/	/	/	/	/	/
110℃PETG	200-240	100-120	1.27	110	11 (250℃/2.16kg	51	150	86	2160	
Carbon fiber	200-220	NO Heat	1.282	/	/	56	9	89	2570	3.4
ASA	230-260	100-120	1.07	85	23 (220℃/10kg)	440	/	650	9180	15
Soft PLA	200-220	NO Heat	1.28	85	3.5 (170℃/2.16k	10.5	400	/	/	/
PCL	70-100	/	1.12	52	2.4	24.5	527	14.5	372	19.5

Print temperature:

PLA Carbon fiber: 200 - 220°C

PETG Carbon fiber: 220 - 250°C

Produktgalleri



