ABS Byggemateriale

Produktkode: 204
Tilgjengelighet: 1

Pris: kr. 310,00

Short Description

ABS er et plastmateriale. Den holder ikke formen så godt som PLA og kan ofte bli misdannet for større utskrifter. ABS løses i aceton og kan brukes som stialsmateriale for utskrifter med PLA.

Beskrivelse

ABS - ABS as a polymer can take many forms and can be engineered to have many properties. In general, it is a strong plastic with mild flexibility (compared to PLA). Natural ABS before colorants have been added is a soft milky beige. The flexibility of ABS makes creating interlocking pieces or pin connected pieces easier to work with. It is easily sanded and machined. Notably, ABS is soluble in Acetone allowing one to weld parts together with a drop or two, or smooth and create high gloss by brushing or dipping full pieces in Acetone. Compared to PLA, it is much easier to recycle ABS.

Its strength, flexibility, machinability, and higher temperature resistance make it often a preferred plastic by engineers and those with mechanical uses in mind.

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