

Metal PLA 3D Filament

Print in 3D and create prototypes, spare parts, quick and on-demand production, etc. in any shape or geometry. Gearlab® 3D Filaments come in different plastic materials and with varying properties.

Gearlab Metal filled PLA Polylactic acid is a biodegradable polymer derived from non-GMO corn starch combined with fine metal powder. Metal PLA filaments contain copper, bronze or aluminum and create printed models with a metal structure that achieves high lustre when sanded and polished.

The metal powder makes the filament heavier, so despite using the same settings and consuming the same amount of material, the metal PLA printed parts will weigh significantly more than the ones printed with standard PLA.

Due to the heavy nature of this material, metal-filled filaments typically do quite poorly when printing overhangs or bridges without added support.

Metal PLA filaments tend to be very abrasive when extruded, so a standard brass nozzle will quickly become worn down. Be sure to upgrade to a wear-resistant steel nozzle in order to print this filament effectively.



Gearlab® Metal PLA 3D Filament comes in aluminium, bronze and copper.

Properties

Diameter	1.75 / 2.85 mm
Tolerance	0.05 mm
Weight	1 kg
Printing temperature	180-220°C
Printing speed	60-90 mm/s
Layer resolution	0.2 mm
Hot bed	45-60°C optional
Printing raft	Not required
Printing substrate	Not required
Tensile strength	≥ 50 Mpa
Impact strength	≥ 3 KJ/m
Elongation at break	≥ 2%
Distortion temperature	≥ 50°C

Features

- Environmentally friendly, biodegradable polymer
- Smoke- and odour-free printing
- Easy to print filament with stable printing size and low material shrinkage
- Enhanced post-print workability



IF YOU CAN DREAM IT, YOU CAN PRINT IT!

3D Printer Filaments

PLA 3D Filament			
1,75mm	2,85mm		PANTONE
GLB251000	GLB251300	PLA 1kg Black	Black
GLB251001	GLB251301	PLA 1kg White	White
GLB251002	GLB251302	PLA 1kg Grey	18-4214
GLB251003	GLB251303	PLA 1kg Silver	877
GLB251004	GLB251304	PLA 1kg Orange	151
GLB251005	GLB251305	PLA 1kg Dark yellow	123
GLB251006	GLB251306	PLA 1kg Yellow	115
GLB251007	GLB251307	PLA 1kg Green	363
GLB251008	GLB251308	PLA 1kg Fluo green	802
GLB251009	GLB251309	PLA 1kg Dark blue	072
GLB251010	GLB251310	PLA 1kg Light blue	16-4725
GLB251011	GLB251311	PLA 1kg Rose magenta	37-1-7
GLB251012	GLB251312	PLA 1kg Pink	230
GLB251013	GLB251313	PLA 1kg Red	485
GLB251014	GLB251314	PLA 1kg Purple	51-1-7
GLB251015	GLB251315	PLA 1kg Brown	7587
GLB251019	GLB251319	PLA 1kg Nature	Nature
GLB251064	GLB251364	PLA Transparent Orange	151
GLB251069	GLB251369	PLA 1kg Transparent Blue	072

Metal PLA 3D Filament		
1,75mm	2,85mm	
GLB251050	GLB251350	Metal 1kg Aluminium
GLB251051	GLB251351	Metal 1kg Bronze
GLB251052	GLB251352	Metal 1kg Copper

PETG 3D Filament		
1,75mm	2,85mm	
GLB252000	GLB252300	PETG 1kg Black
GLB252001	GLB252301	PETG 1kg White
GLB252002	GLB252302	PETG 1kg Grey
GLB252003	GLB252303	PETG 1kg Silver

ABS Pro 3D Filament		
1,75mm	2,85mm	
GLB253000	GLB253300	ABS Pro 1kg Black
GLB253001	GLB253301	ABS Pro 1kg White

HIPS 3D Filament		
1,75mm	2,85mm	
GLB253201	GLB253501	HIPS 1kg Black

PVA 3D Filament		
1,75mm	2,85mm	
GLB254001	GLB254301	PVA 0,5kg White

Pearl PLA 3D Filament			
1,75mm	2,85mm		PANTONE
GLB251020	GLB251320	PLA Pearl 1kg Black	Black
GLB251022	GLB251322	PLA Pearl 1kg Grey	18-4214
GLB251023	GLB251323	PLA Pearl 1kg Silver	877
GLB251026	GLB251326	PLA Pearl 1kg Gold	871
GLB251035	GLB251335	PLA Pearl 1kg Brown	7587

PA Carbon Filled Nylon 3D Filament		
1,75mm		
GLB256000		PA Carbon Nylon 0.5kg Black

PA Nylon 3D Filament		
1,75mm	2,85mm	
GLB256001		PA Nylon 1kg White
GLB256019		PA Nylon 1kg Nature

Flexible PLA 3D Filament			
1,75mm	2,85mm		PANTONE
GLB255000	GLB255300	PLA Flex 1kg Black	Black
GLB255001	GLB255301	PLA Flex 1kg White	White
GLB255005	GLB255305	PLA Flex, 1kg Dark yellow	123



Colours do not reflect the actual 3D filament colours.

IF YOU CAN DREAM IT, YOU CAN PRINT IT!