

## Leapfrog 3D Printers - Filament information : Leapfrog MAXX

This information should act as a guideline. Your personal experience may be different.

Leapfrog MAXX name	PLA	ABS	FLEX	PET-G	HYBRID	PVA	HIPS	CARBON	WOODFILL	LAYBRICK	NYLON	POLYCARBONATE
<b>General information</b>												
Pricing	€39,- / €49,-	€34,-	€49,-	€49,-	€49,-	€69,-	€49,-	€49,-	€49,-	€19,-	€49,-	not available
Amount	0.75 kg	0.75 kg	0.75 kg	0.75 kg	0.75 kg	0.75 kg	0.75 kg	0.75 kg	0.75 kg	0.25 kg	0.75 kg	not available
<b>Printer compatible</b>												
Creatr HS (XL)	yes	yes	no	yes	yes	yes	yes	no	yes	yes	no	no
Xeed	yes	yes	yes	yes	yes	yes	yes	no	no	yes	yes	no
XceL	yes	no	no	no	no	no	no	no	no	no	no	no
Bolt	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
<b>Recommended for</b>												
Support	no	no	no	no	no	yes	yes	no	no	no	no	no
Prototyping	yes	yes	yes	yes	yes	no	no	yes	no	no	yes	yes
Education	yes	no	yes	no	yes	no	no	no	no	no	no	no
Architecture	yes	no	no	yes	no	no	no	no	no	yes	no	no
Imitation	yes	no	no	no	no	no	no	no	yes	yes	no	yes
Mechanical parts	yes	yes	yes	yes	no	no	no	yes	no	no	yes	yes
Innovation	no	no	yes	no	no	no	no	no	no	no	no	no
Medical*	possible	no	unknown	no	possible	no	no	no	no	no	possible	possible
Food safe*	possible	yes	possible	yes	yes	no	no	no	no	no	possible	no
*Please research the possibilities for your specific situation												
<b>Print properties</b>												
Ease of printing	high	medium	medium	high	medium	low	medium	medium	medium	medium	medium	medium
Warping	low	high	none	low	low	low	low	low	low	low	high	high
Bed Adhesion	high	medium	high	high	high	medium	medium	medium	high	medium	low	medium
Layer bonding	high	medium	very high	medium	high	medium	medium	medium	medium	medium	medium	high
Extruder temperature °C	205-215	235-255	210-255	235-250	240-260	200-220	220-270	225-246	190-210	185-195	230-260	265-300
Bed temperature °C												
Common print speed	high	medium	slow	slow	high	medium	medium	medium	slow	slow	slow	slow
Recommended printer setup	standard	heated environment	direct drive	standard	standard	dry filament	standard	durable nozzle	0.5mm nozzle	0.5mm nozzle	dry filament	slow high-temperature hotend

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<b>Material Properties</b>												
Unique property	made from corn	strong	flexible	recycled	FDA approved	soluble (water)	soluble (limonene)	stiff	wood fibers	brick fibers	chemical resistant	chemical inert
Finish	smooth	smooth	smooth	smooth	smooth	coarse	coarse	coarse	coarse	coarse	smooth	smooth
Look	light gloss	mat*	mat	light gloss	light gloss	mat	mat	light gloss	mat	mat	mat	light gloss
Colours available	many	many	black, white, natural	many	natural	natural	natural	black	light brown	sandstone	black, white	not yet available
Transparent available	no	no	no	translucent	no	no	no	no	no	no	no	no
Recyclable	yes	no	no	yes	no	no	no	no	no	no	no	no
Biodegradable	composted	no	no	no	no	no	no	no	no	no	no	no
Fumes	none	low	none	none	none	none	none	none	none	none	none	none
Scent	weak	weak	none	none	none	none	none	none	strong	none	none	none
Weight	medium	medium	medium	medium	medium	medium	medium	light	light	heavy	medium	medium
*ABS can be finished with an acetone vapor, which will result in a high gloss finish												
<b>Mechanical Properties*</b>												
Strength*	medium	high	medium	medium	medium	low	low	high	medium	low	very high	very high
Flexibility	medium	medium	very high	medium	high	low	low	very low	low	low	medium	high
Stiffness	high	high	low	medium	medium	medium	medium	very high	high	medium	high	high
Brittleness	medium	low	low	high	low	medium	medium	very high	medium	high	low	low
Tensile strength	high	medium	medium	medium	medium	low	low	high	medium	low	very high	very high
Impact resistant	medium	high	high	medium	high	low	low	high	medium	low	high	high
Chemical resistant	low	medium	medium	high	high	low	low	medium	low	low	high	medium
Heat resistant	low	medium	medium	medium	medium	low	low	high	medium	medium	high	high
UV resistant	medium	medium	medium	low	medium	medium	medium	medium	medium	medium	high	medium
Scratch resistant	medium	medium	medium	low	medium	medium	medium	high	medium	medium	medium	high
Friction/wear resistant	low	medium	low	high	medium	low	low	medium	low	low	high	high

\*The values should be used as a reference to each other. Other aspects, like the quality of the print in print environment can give other results.

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