

Material Extrusion

Engineering Plastics 3D Printer LINK EP-500



HARDWARE

3D printer optimized for super engineering plastics

- Chamber temp. up to 250°C / Nozzle temp. up to 500°C
- High precision printing $\pm 0.2/100$ mm
- Safe sealed & ventilated design with user-friendly operation



High-Temperature Chamber

Ensures Z-axis rigidity, enhances PEEK strength with higher chamber temps

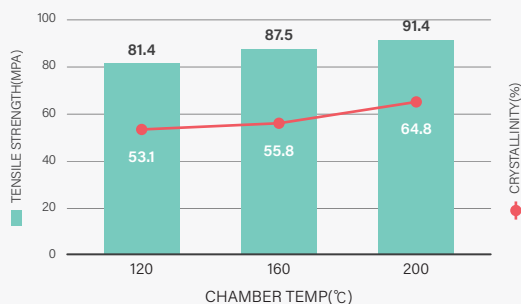
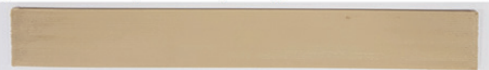
(1) Chamber temperature (120 °C)



(2) Chamber temperature (160 °C)

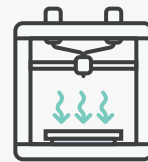


(3) Chamber temperature (200 °C)



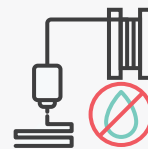
Data : High-temperature 3D printing of polyetheretherketone products:
Perspective on industrial manufacturing applications of super engineering plastics

PEEK Strength Variation by Chamber Temperature



Vacuum Bed System

Damage-free part removal,
less post-processing



Automatic Dry Material Feed

- Prevents moisture bubbles & breakage
- Minimizes deformation for long-term storage

HARDWARE

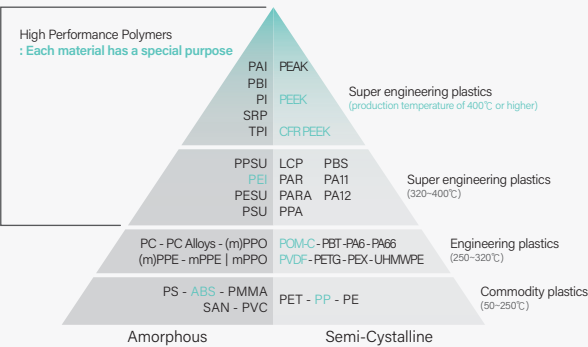
Customized materials & efficient maintenance

- Supports a wide spectrum of engineering plastics, from ABS to PEEK
- Open material interface provides printing flexibility and reduces dependency on specific vendors
- Contributes to lower operating costs and enhanced adaptability

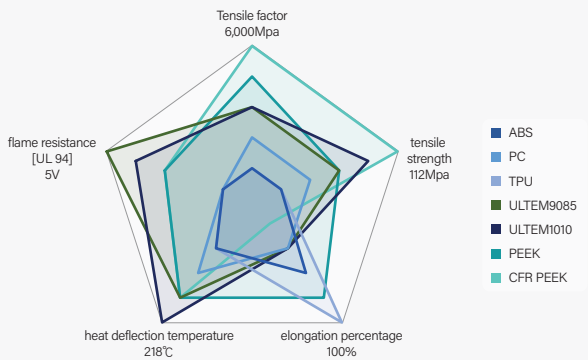


Material Agnostic

Free material choice, no restrictions



Material Groups Available for Use

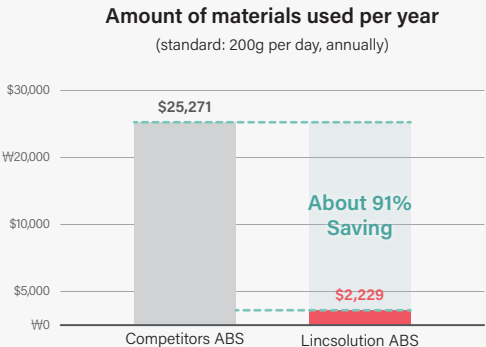


Comparison of Standard Material's Properties



Low Maintenance Costs

Cost-efficient maintenance with material flexibility



Material Cost Comparison



Examples of Developed Material Applications



SPEC

Machine	LINK EP-500
Printer Type	FFF (Fused Filament Fabrication)
Dimensions	1470 × 1090 × 1910 mm
Weight	900 kg
Build Size	500 × 500 × 500 mm
Nozzle Type	LINK - HP Extruder Dual Nozzle
Filament Control System	Self-loading Filament
Plate System	Vacuum Bed System
Layer Resolution	0.1~0.4 mm
Nozzle Diameter	0.5 mm
Maximum Nozzle Temperature	up to 500°C
Maximum Chamber Temperature	up to 250°C
Chamber Heat-preserving System	± 5°C
Accuracy	± 0.2/100 mm
Print Speed	2500 mm/min
Input Data File	OBJ, STL
Input Power	3-phase 4-wire, AC 380 V 20 kW
Support	Part Break & Water-soluble Support
Certifications	KC, CE
Materials	PEEK, CARBON PEEK, PEKK, PEEK, PPS, ULTEM, PP, ABS and Other Engineering Plastic