



PLA 850

TECHNICAL DATA SHEET

SAKATA 3D PLA 850 filament is suitable for all consumer-grade 3D FDM/FFF printers. This filament exhibits fast crystallization rates and is able to develop improved heat resistance in 3D printed parts. SAKATA 3D PLA 850 filament has excellent 3D printing characteristics such as precise detail, good adhesion to build plates, less warping and curling, and low odor. Made in Spain by POLIMERSIA GLOBAL S.L.

FILAMENT SPECIFICATIONS	Unit	Value
Diameter	Mm	1.75 ± 0.05 / 2.85 ± 0.05
Max. roundness deviation	Mm	0.05
Net weight	G	1,000

PHYSICAL PROPERTIES	Standard	Unit	Value
Specific gravity	ASTM D792	g/cm ³	1.24
MECHANICAL PROPERTIES ⁽¹⁾	Standard	Unit	Value
Tensile strength	ASTM D638	MPa	50
Tensile modulus	ASTM D638	MPa	2,315
Tensile elongation	ASTM D882	%	3.31
Notched Izod impact	ASTM D256	J/m	118
THERMAL PROPERTIES	Standard	Unit	Value
Heat distortion temperature	ASTM E2092	°C	80-90

(1) All 3D printed parts printed at 100% infill and annealed at 110°C/15 min.

PRINT SETTINGS	Unit	Value
Nozzle temp.	°C	205 - 220
Bed temp.	°C	Not needed (50-70 optional)
Bed modification	-	--
Fan speed	%	100
Layer height	mm	0.1-0.3
Shell thickness	mm	1.2
Print speed	mm/s	≤ 120 mm/s
Annealing temperature	°C	80 - 110

Certifications / Approvals

SAKATA 3D PLA 850 filament is not certified for food contact either medical applications.

Safety Considerations

Good general ventilation of the workplace is recommended.

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