

SAKATA 3D PLA 700 filament has been developed for large-format additive manufacturing (XL printers). This filament exhibits a significant shrink rate reduction (<0.25%) which allows to minimize large-format print failures for warping or curling. It shows a print temperature lower than PLA 850 and HR-PLA 870 and excellent printing properties. 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	2,500 / 5,000

PHYSICAL PROPERTIES	Standard	Unit	Value
Specific gravity	ASTM D1505	g/cm ³	1.24
MECHANICAL PROPERTIES ⁽¹⁾	Standard	Unit	Value
Tensile strength	ASTM D638	MPa	47.57
Tensile modulus	ASTM D638	MPa	3268.11
Flexural strength	ASTM D790	MPa	103
Flexural modulus	ASTM D790	MPa	3664.56
Notched Izod impact	ASTM D256	J/m	16-21.4
THERMAL PROPERTIES	Standard	Unit	Value
Heat distortion temperature	ASTM E2092	°C	50-55

⁽¹⁾ Typical properties measured on injection molded bars; not to be construed as specifications or properties of 3D printed part.

PRINT SETTINGS	Unit	Value
Nozzle temp.	°C	190-200
Bed temp.	°C	Not needed (40-50 optional)
Bed modification	-	--
Fan speed	%	100
Layer height	mm	0.1-0.3
Shell thickness	mm	0.4-2.0
Print speed	mm/s	40-100 mm/s

Colour informationWhite
RAL 9016 (*)Black
RAL 8022 (*)Grey
RAL 7040 (*)

(*) Approximate RAL colour

Certifications / Approvals

SAKATA 3D PLA 700 filament is not certified for food contact either medical applications.

Safety Considerations

Good general ventilation of the workplace is recommended.

Disclaimer

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