

PolySupport™

PolySupport™ is a break away support for Polymaker PLA based filaments. It has a perfect interface with PLA, strong enough to support it and easily removable by hand.

Physical Properties

Property	Testing method	Typical value
Density	ASTM D792 (ISO 1183, GB/T 1033)	1.22 (g/cm ³ at 21.5 °C)
Melt index	220 °C, 2.16 kg	3-6 (g/10 min)

Tested with 3D printed specimen of 100% infill

Material Compatibility

Material	Adhesion with PolySupport™
PLA based material from Polymaker's portfolio	++
PETG based material from Polymaker's portfolio	-
ABS based material from Polymaker's portfolio	-
PC based material from Polymaker's portfolio	+
PVB based material from Polymaker's portfolio	+
TPU based material from Polymaker's portfolio	+
Nylon based material from Polymaker's portfolio	--

++ support the model very well

+ generally support the model depending on its geometry

- generally doesn't support the model depending on its geometry

-- do not support the model

Recommended printing conditions

Parameter	
Nozzle temperature	220 - 230 (°C)
Build Surface material	BuildTak®, Blue Tape
Build surface treatment	None
Build plate temperature	25 - 60 (°C)
Cooling fan	Turned on
Printing speed	20-40 (mm/s)
Raft separation distance	0 (mm)
Retraction distance	1 (mm)
Retraction speed	20 (mm/s)
Recommended environmental temperature	Room temperature

Based on 0.4 mm nozzle and Simplify 3D v.3.1. Printing conditions may vary with different nozzle diameters

Disclaimer:

The typical values presented in this data sheet are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary significantly with printing conditions. End- use performance of printed parts depends not only on materials, but also on part design, environmental conditions, printing conditions, etc. Product specifications are subject to change without notice.

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