

SafeGuard PLA

MATERIAL PROPERTIES

Specific Gravity	1.24 g/cm ³	D 792
MFR	6 g/10min (210°C, 2.16kg)	D 1238

Mechanical Properties

Tensile Strength at Break	53 MPa	D 882
Tensile Yield Strength	60 MPa	D 882
Tensile Modulus	3.5 Gpa	D 882
Tensile Elongation	6,00%	D 882
Notched Izod Impact	16 J/m	D 256
Heat Distortion Temperature	55°C	E 2092
Glass Transition Temperature	55-60°C	D3418
Flexural Strength	83 MPa	D790
Flexural Modulus	3.8 MPa	D790

GUIDELINE FOR PRINT SETTINGS*

Nozzle temperature - standard speed	185-215°C
Bed temperature	0-45°C
Active cooling fan	Up to 100%
Layer height**	0.40 - 2.70mm
Shell thickness**	0.05 - 0.30mm
Closed chamber	not necessary
Dry box	No
Ruby or hardened nozzle	No
Adhesive	not necessary (if you need increased adhesion or prevent warping: glue stick, Dimafix, 3DLac, Magigoo)

* settings are based on a 0.4mm nozzle

** depending on the geometrical complexity

DESCRIPTION

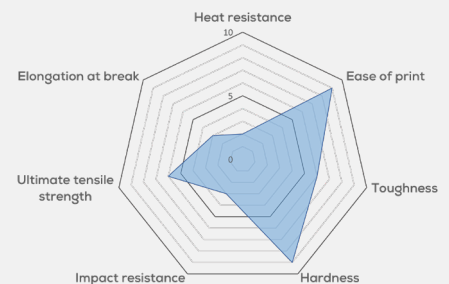
SafeGuard PLA is an advanced antibacterial 3D printing filament designed to protect surfaces from harmful microbes, viruses, biofilm, fouling and mold. ISO 22196 tests conducted on 3D-printed specimens show that SafeGuard PLA is over 99.9% more hygienic than standard PLA.

FEAUTURES

- Long-lasting effectiveness - retains its antibacterial properties over time
- Biocide-free - making it safe to use and preventing the migration of active substances from the material
- Versatile applications

STORAGE AND SHELF LIFE

Filament should be stored in a dry room at room temperature. Recommended storage temperature is ca. 18-25°C (64.4 -77.0°F). Keep out of moisture, sunlight and direct heat. When stored properly, product has a shelf life of 24 months.



SUPPORT

If you have any questions or experience any issues, please do not hesitate to contact us at support@spectrumfilaments.com