

SIMONA



SIMOGREEN PLA Filament

For maximum precision in 3D printing

GLOBAL THERMOPLASTIC SOLUTIONS

SIMOGREEN PLA Filament – For maximum precision in 3D printing



i A promising growth market

In 2013 the 3D printing market as a whole generated sales to the tune of USD 2.5 billion. Market analysts predict an average annual growth rate of 45.7% by 2016, with around 66% of sales attributable to consumables and services.

With the launch of its SIMOGREEN PLA Filaments, SIMONA is offering a reliable consumable for 3D printers in proven SIMONA quality – made in Germany.

The last decades have seen the development of numerous 3D printing processes; these are additive manufacturing techniques in which components are produced directly from CAD data without the kind of shaping tools used in areas such as injection-moulding or thermoforming.

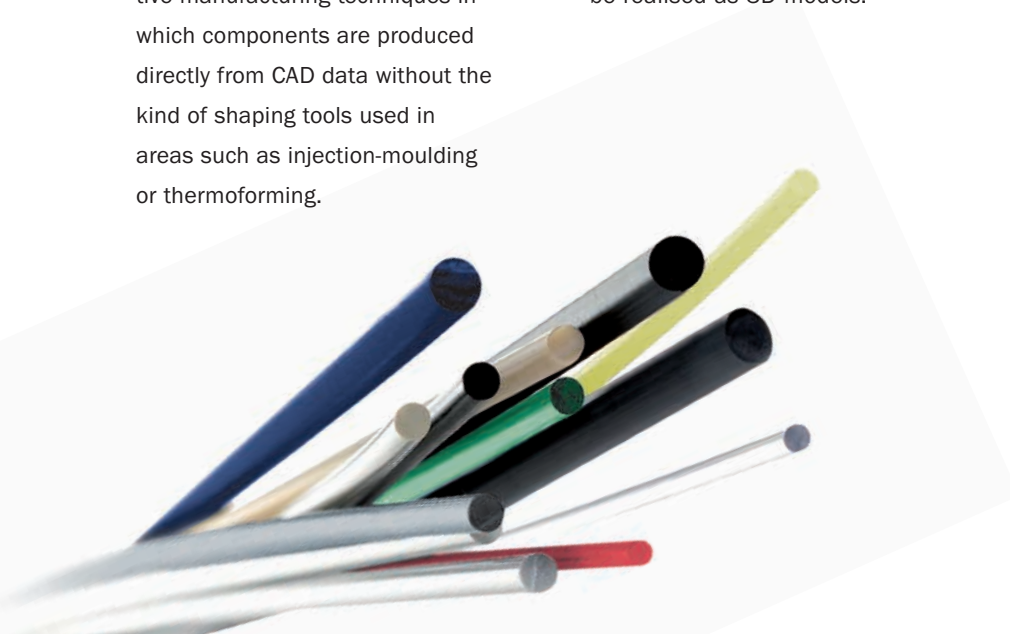
3D printing process

In 3D printing with polymer filaments, the molten filament is deposited in layers through a movable nozzle to form a three-dimensional structure. The individual layers fuse into one another and the material solidifies as it cools, allowing complex geometries to be realised as 3D models.

Consistent material quality

Due to the ease with which they can be processed, filaments made of the bio-based plastic PLA (polylactide) are particularly suitable for 3D printing. Thanks to the informed choice of raw material, systematic adjustment of the formula and comprehensive testing, SIMONA has developed a PLA filament offering an outstanding and above all consistent material quality.

SIMONA can also supply 3D printing filaments in PETG as well as HIPS support material on request.




SIMOGREEN PLA Filament – Product range and properties

SIMOGREEN PLA / PLA-HT Filament

	Spool 0.75 kg	Spool 2.0 kg
--	-------------------------	------------------------

Round rod (RD) (diameter d in mm)

 d	1.75	✓	✓
	2.85	✓	✓
	3.00	✓	✓
Colours	blue, red, white, natural, black, yellow, green, silver-grey		

For more information about availability, please contact our sales department: sales@simona.de. Other materials (e. g. PETG or HIPS), formats, diameters and colours on request.



+ High precision

To ensure an optimum printing result, we take great care to ensure superior quality when producing the filament and winding it onto the spool.

+ Excellent printability

The small filament diameter and very narrow tolerances guarantee very good printability even in the case of intricate shapes.

+ Wide range of colours

The current product range comprises PLA filaments in blue, red, white, natural, black, yellow, green and silver-grey. Other colours are available on request.

+ Excellent material properties

PLA boasts high rigidity and good adhesion. In addition, 3D models in PLA can be easily bonded and painted. PLA-HT features higher heat resistance and much improved notched impact strength compared with standard PLA.



SIMOGREEN PLA Filament – Material specifications

Material specifications

	SIMOGREEN PLA	SIMOGREEN PLA-HT
Density, g/cm ³ , DIN EN ISO 1183	1.26	1.26
Yield stress, MPa, DIN EN ISO 527	73	39
Elongation at yield, %, DIN EN ISO 527	2.9	1.3
Tensile modulus of elasticity, MPa, DIN EN ISO 527	3,350	3,800
Notched impact strength, kJ/m ² , DIN EN ISO 179	2.7	23
Shore hardness D (15 s), DIN EN ISO 868	81	77
Vicat B, °C, DIN EN ISO 306	55	86



SIMONA AG

Teichweg 16
55606 Kirn
Germany
Phone +49 (0) 67 52 14-0
Fax +49 (0) 67 52 14-211
mail@simona.de
www.simona.de

PRODUCTION SITES

Plant I

Teichweg 16
55606 Kirn
Germany

Plant II

Sulzbacher Straße 77
55606 Kirn
Germany

Plant III

Gewerbestraße 1-2
77975 Ringsheim
Germany

SIMONA Plast-Technik s.r.o.

U Autodilen 23
43603 Litvínov-Chudeřín
Czech Republic

SIMONA ENGINEERING PLASTICS (Guangdong) Co. Ltd.

No. 368 Jinou Road
High & New Technology Industrial
Development Zone
Jiangmen, Guangdong
China 529000

SIMONA AMERICA INC.

101 Power Boulevard
Archbald, PA 18403
USA

Boltaron Inc.

A SIMONA Group Company
One General Street
Newcomerstown, OH 43832
USA

SALES OFFICES

SIMONA S.A.S. FRANCE

Z.I. 1, rue du Plant Loger
95335 Domont Cedex
France
Phone +33 (0) 1 39 35 49 49
Fax +33 (0) 1 39 91 05 58
mail@simona-fr.com
www.simona-fr.com

SIMONA UK LIMITED

Telford Drive
Brookmead Industrial Park
Stafford ST16 3ST
Great Britain
Phone +44 (0) 1785 222444
Fax +44 (0) 1785 222080
mail@simona-uk.com
www.simona-uk.com

SIMONA AG SWITZERLAND

Industriezone
Bäumlimattstrasse 16
4313 Möhlin
Switzerland
Phone +41 (0) 61 855 9070
Fax +41 (0) 61 855 9075
mail@simona-ch.com
www.simona-ch.com

SIMONA S.r.l. ITALIA UNIPERSONALE

Via Padana Superiore 19/B
20090 Vimodrone (MI)
Italy
Phone +39 02 25 08 51
Fax +39 02 25 08 520
mail@simona-it.com
www.simona-it.com

SIMONA IBERICA SEMIELABORADOS S.L.

Doctor Josep Castells, 26-30
Polígono Industrial Fonollar
08830 Sant Boi de Llobregat
Spain
Phone +34 93 635 41 03
Fax +34 93 630 88 90
mail@simona-es.com
www.simona-es.com

SIMONA-PLASTICS CZ, s.r.o.

Zděbradská ul. 70
25101 Říčany-Jažlovice
Czech Republic
Phone +420 323 63 78 37
Fax +420 323 63 78 48
mail@simona-cz.com
www.simona-cz.com

SIMONA POLSKA Sp. z o.o.

ul. Wrocławska 36
Wojkowice k / Wrocławia
55-020 Żórawina
Poland
Phone +48 (0) 71 3 52 80 20
Fax +48 (0) 71 3 52 81 40
mail@simona-pl.com
www.simona-pl.com

OOO "SIMONA RUS"

Prospekt Andropova, 18, Bl. 6
115432 Moscow
Russian Federation
Phone +7 (499) 683 00 41
Fax +7 (499) 683 00 42
mail@simona-ru.com
www.simona-ru.com

SIMONA FAR EAST LIMITED

Room 501, 5/F
CCT Telecom Building
11 Wo Shing Street
Fo Tan, Hong Kong
China
Phone +852 29 47 01 93
Fax +852 29 47 01 98
sales@simona-hk.com
www.simona-cn.com

SIMONA ENGINEERING PLASTICS TRADING (Shanghai) Co. Ltd.

Room C, 19/F, Block A
Jia Fa Mansion
129 Da Tian Road, Jing An District
Shanghai
China 200041
Phone +86 21 6267 0881
Fax +86 21 6267 0885
shanghai@simona.com.cn
www.simona-cn.com

SIMONA AMERICA INC.

101 Power Boulevard
Archbald, PA 18403
USA
Phone +1 866 501 2992
Fax +1 800 522 4857
mail@simona-america.com
www.simona-america.com

Boltaron Inc.

A SIMONA Group Company
One General Street
Newcomerstown, OH 43832
USA
Phone +1 800 342 7444
Fax +1 740 498 5448
info@boltaron.com
www.boltaron.com