

**SIMONA**



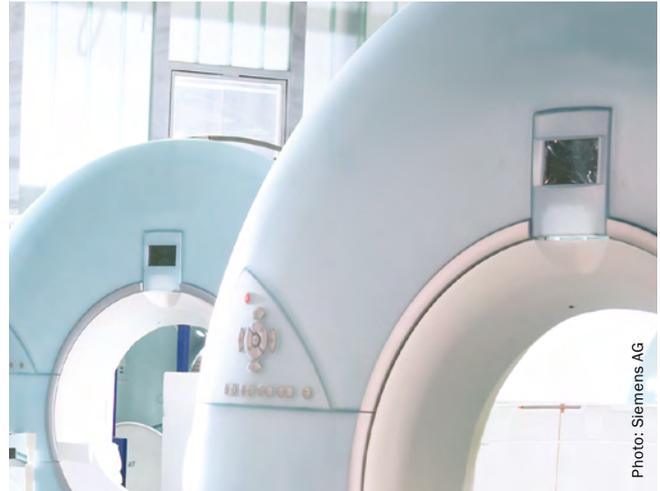
**SIMOLUX**

Transparent PETG sheets

GLOBAL THERMOPLASTIC SOLUTIONS

# SIMOLUX – The essence of eye-catching design

**SIMOLUX, the transparent, break-proof copolyester sheet made of PETG, is a true all-rounder. Combining high impact strength and excellent thermoforming properties with low flammability, SIMOLUX is the perfect material for a variety of applications.**



SIMOLUX is a low-flammability product in accordance with DIN 4102 B1; it is available in a transparent, opal, satined or embossed design. SIMOLUX-UV is a UV-stabilised variant of the material.

## Versatile use

- Sales displays
- Illuminated signs
- Exhibition design
- Ceiling panels
- Machine covers
- Orthopaedics
- Engineering and design
- and more

## Excellent properties

- Low flammability (DIN 4102 B1)
- Crystal clear and ultra-transparent
- Excellent printability
- Dyeable
- Physiologically safe and food compliant
- Impact strength and fracture resistance
- Excellent thermoforming properties

## Processing versatility

	Sawing
	Bolting
	Drilling
	Milling
	Deep-drawing
	Laser cutting
	Water-jet cutting
	Gluing
	Warm bending
	Cold forming
	Printing
	Edge polishing
	Die-cutting
	Cutting
	Welding
	Backing, Laminating

**+ Crystal clear**

SIMOLUX sheets have a sophisticated appearance and a brilliant surface. On request, we can also make specific colour adjustments. The sheets are dyeable and can be used to create special lighting effects – perfect all-rounders when it comes to interior design.

**+ Extreme impact resistance**

SIMOLUX is a highly shatterproof material with excellent impact strength – even at sub-zero temperatures (down to -40 °C).

**+ Efficient processing**

SIMOLUX is highly versatile and efficient when it comes to handling and processing. The sheets are suitable for deep-drawing and can generally be processed without the need for pre-drying.



**Product range**

		SIMOLUX	SIMOLUX opal
<b>Extruded sheets</b> (size   thickness in mm)			
	2000 x 1000	1 - 15	2 - 4
	2050 x 1250	1 - 12	2 - 4
	3050 x 1500	1.5 - 12	2 - 4
	3050 x 2050	2 - 10	2 - 4
	Colours	transparent	opal
<b>Welding rods</b>			
	Types	Round	-
	Thicknesses (in mm)	3 - 4	-
	Colours	transparent	-

The dimensions specified are standard dimensions. Other sizes and thicknesses as well as sheets made of SIMOLUX embossed, SIMOLUX satined and SIMOLUX-UV available on request.

Various sizes and thicknesses available from stock. Please contact our sales department for further details concerning availability: [sales@simona.de](mailto:sales@simona.de).



# SIMOLUX – Material specifications

## Material specifications

		SIMOLUX	SIMOLUX opal
Density, g/cm <sup>3</sup> , DIN EN ISO 1183		1.27	1.28
Yield stress, MPa, DIN EN ISO 527		52	52
Elongation at yield, %, DIN EN ISO 527		4.5	4.5
Tensile modulus of elasticity, MPa, DIN EN ISO 527		1900	1900
Notched impact strength, kJ/m <sup>2</sup> , DIN EN ISO 179		10	7
Dielectric strength, kV/mm, DIN IEC 60243-1		16	16
Shore hardness D (15 s), DIN EN ISO 868		78	78
Mean coefficient of linear thermal expansion, K <sup>-1</sup> , ISO 11359-2		0.7 x 10 <sup>-4</sup>	0.7 x 10 <sup>-4</sup>
Specific surface resistance, Ohm, DIN IEC 60093		10 <sup>14</sup>	10 <sup>14</sup>
Light transmission, %		90	25
Fire behaviour, DIN 4102		B1 low flammability: 1 to 8 mm (Test certificate available)	B1 low flammability: 3 to 8 mm (Test certificate available)
Temperature range, °C		-40 to +65	-40 to +65
Physiologically safe	BfR	✓	✓
Food conformity	EU	✓	-
	FDA	✓	✓

All specifications are deemed to be approximate values in respect of the specific material and may vary depending on the processing methods used. In general, data specified applies to average values measured on extruded sheets with a thickness of 4 mm. In the case of sheets manufactured by means of pressing, testing is generally performed on sheets with a thickness of 20 mm. Deviations from the values specified are possible if the sheets in this thickness are not available. In the case of backed sheets, all technical specifications relate to the non-backed base sheets. Information presented herein is not necessarily applicable to other products (e.g. pipes, solid rods) of the same material or products that have undergone downstream processing. Suitability of materials for a specific field of application must be assessed by the party responsible for processing or the end-user. All technical specifications presented herein are designed merely to provide assistance in terms of project planning. They do not constitute a guarantee of specific properties or qualities. For further information, please contact our Technical Service Centre at [tsc@simona.de](mailto:tsc@simona.de).

### SIMONA AG

**Teichweg 16  
55606 Kirn  
Germany**  
Phone +49 (0) 67 52 14-0  
Fax +49 (0) 67 52 14-211  
[mail@simona.de](mailto:mail@simona.de)  
[www.simona.de](http://www.simona.de)

### SIMONA AMERICA INC.

101 Power Boulevard  
Archbald, PA 18403  
USA  
**Boltaron Inc.**  
**A SIMONA Company**  
1 General Street  
Newcomerstown, OH 43832  
USA

### SIMONA S.r.l. SOCIETÀ UNIPERSONALE

Via Volontari del Sangue 54a  
20093 Cologno Monzese (MI)  
Italy  
Phone +39 02 250851  
Fax +39 02 2508520  
[commerciale@simona-it.com](mailto:commerciale@simona-it.com)  
[www.simona-it.com](http://www.simona-it.com)

### OOO "SIMONA RUS"

Projekti.ruemy proezd No. 4062,  
d. 6, str. 16  
BC PORTPLAZA  
115432 Moscow  
Russian Federation  
Phone +7 (499) 683 00 41  
Fax +7 (499) 683 00 42  
[mail@simona-ru.com](mailto:mail@simona-ru.com)  
[www.simona-ru.com](http://www.simona-ru.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](mailto:mail@simona-america.com)  
[www.simona-america.com](http://www.simona-america.com)

### 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 Autodílen č.p. 23  
43603 Litvinov-Chudeřín  
Czech Republic

#### SIMONA ENGINEERING PLASTICS (Guangdong) Co. Ltd.

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

### SALES OFFICES

#### SIMONA S.A.S. FRANCE

43, avenue de l'Europe  
95330 Domont  
France  
Phone +33 (0) 1 39 35 49 49  
Fax +33 (0) 1 39 91 05 58  
[mail@simona-fr.com](mailto:mail@simona-fr.com)  
[www.simona-fr.com](http://www.simona-fr.com)

#### SIMONA UK LIMITED

Telford Drive  
Brookmead Industrial Park  
Stafford ST16 3ST  
Great Britain  
Phone +44 (0) 1785 22 24 44  
Fax +44 (0) 1785 22 20 80  
[mail@simona-uk.com](mailto:mail@simona-uk.com)  
[www.simona-uk.com](http://www.simona-uk.com)

#### SIMONA AG SWITZERLAND

Industriezone  
Bäumlimattstrasse 16  
4313 Möhlin  
Switzerland  
Phone +41 (0) 61 855 90 70  
Fax +41 (0) 61 855 90 75  
[mail@simona-ch.com](mailto:mail@simona-ch.com)  
[www.simona-ch.com](http://www.simona-ch.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](mailto:mail@simona-es.com)  
[www.simona-es.com](http://www.simona-es.com)

#### SIMONA Plast-Technik s.r.o.

Paříkova 910/11a  
19000 Praha 9 – Vysočany  
Czech Republic  
Phone +420 236 160 701  
Fax +420 476 767 313  
[mail@simona-cz.com](mailto:mail@simona-cz.com)  
[www.simona-cz.com](http://www.simona-cz.com)

#### SIMONA POLSKA Sp. z o.o.

ul. Wrocławska 36  
Wojkowice k / Wrocławia  
55-020 Żórawina  
Poland  
Phone +48 (0) 71 352 80 20  
Fax +48 (0) 71 352 81 40  
[mail@simona-pl.com](mailto:mail@simona-pl.com)  
[www.simona-pl.com](http://www.simona-pl.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](mailto:sales@simona-hk.com)  
[www.simona-cn.com](http://www.simona-cn.com)

#### SIMONA ENGINEERING PLASTICS

#### TRADING (Shanghai) Co. Ltd.

Room 5, 19/F, Block B  
Hongqiao Nanfeng Town  
No. 100 Zunyi Road  
Changning District  
Shanghai  
China 200051  
Phone +86 21 6267 0881  
Fax +86 21 6267 0885  
[shanghai@simona-cn.com](mailto:shanghai@simona-cn.com)  
[www.simona-cn.com](http://www.simona-cn.com)

#### SIMONA INDIA PRIVATE LIMITED

Star Hub, Unit No. 204,  
2nd Floor, Building No. 1,  
Sahar Road, Andheri East,  
Mumbai 400099  
India  
Phone +91(0)2266197 100  
Fax +91(0)2266197 105  
[sales@simona-in.com](mailto:sales@simona-in.com)

Upon publication of a new edition all previous editions shall become void. The authoritative version of this publication can be found on our website at [www.simona.de](http://www.simona.de). All information furnished in this publication reflects our current scope of knowledge on the date of publication and is designed to provide details of our products and potential fields of application (errors and omissions excepted, including typographical mistakes).