

SIMOLIFE

Product Range for Orthotics and Prosthetics

GLOBAL THERMOPLASTIC SOLUTIONS

Key

Fields of application



Î

Trunk orthoses

Orthoses for upper extremities

Orthoses for lower extremities



Foot/leg prostheses



Hand/arm prostheses

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Plastics in Service of Health SIMONA – A Trusted Partner



Acknowledged for its consistently high quality, SIMONA has been a trusted partner to the orthopaedic technology sector for more than 35 years. The SIMOLIFE line of sheet materials represents the most extensive range of products tailored to the specific requirements of the orthopaedics industry. Using certified raw materials, we manufacture premium-quality products that meet the highest standards applicable within the health care sector.

Global Thermoplastic Solutions – Welcome to SIMONA

SIMONA is acknowledged as one of the leading producers and development partners in the field of thermoplastics. We are able to offer you best-in-class solutions tailored to your applications: in the chemical processing industry, in the water, energy and commodities supply sector as well as in the field of mobility, construction and environmental technology. What is more, our operations span the globe.

Drawing on our outstanding abilities in process engineering, we specialise in the production of plastic sheets, fittings and piping systems designed to meet the highest standards. Our ambition is to become your first port of call for all safety- and eco-specific applications.

Extensive product range

SIMONA boasts one of the world's largest portfolios of thermoplastic products:

- Sheets
- Finished parts and profiles
- Welding rods
- Solid and hollow rods
- Pipes and fittings
- Valves

We use a wide selection of premium-quality materials to manufacture our products. Working in close cooperation with your team, we are also able to modify existing materials or develop entirely new solutions for the purpose of creating customised products that meet your specific requirements.

Best-in-class quality

Frequent product audits and endurance testing provide essential data for our R&D engineers to make targeted improvements to the SIMONA portfolio on a continual basis. Committed to excellence, we are thus able to offer an innovative, high-quality product range.

Expert advice

As a customer, you always take centre stage: from project development and materials procurement through to production and on-site planning, we are committed to providing the very best professional advice and assistance. At the same time, we are inspired and spurred on by new technical challenges.

Global distribution network

SIMONA operates production plants in Europe, America and Asia. Maintaining a global network of subsidiaries and distribution partners, we are renowned for providing a fast, flexible and reliable service.

Compelling solutions

SIMONA City is designed to capture the spirit of diversity that infuses our portfolio of products. Discover SIMONA City!



🖳 www.simona-city.com





The management systems operated by SIMONA AG with regard to quality, the environment and energy resources are certified in accordance with DIN EN ISO 9001, DIN EN ISO 14001 and DIN EN ISO 50001.

The quality management system of SIMONA AG in compliance with the Pressure Equipment Directive is certified to 97/23/EC Annex I, para. 4.3.

SIMOLIFE Diversity of Materials

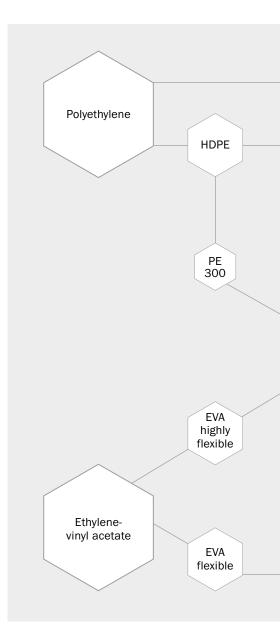
Thermoplastics have been instrumental in the evolution of modernday orthopaedic technology and are now an integral part of this area of application. Today, they have almost completely replaced classic materials such as wood and leather.

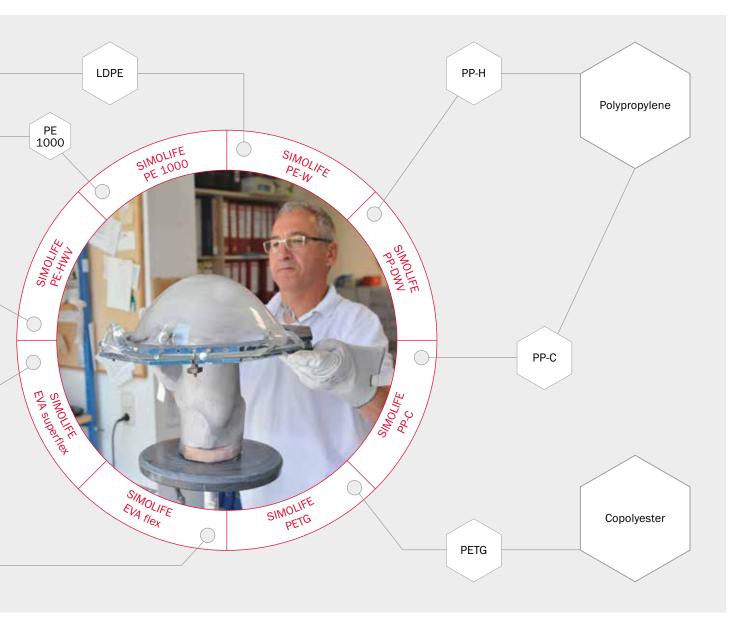
The range of plastics to choose from is extensive, with polyethylene, polypropylene, ethylene-vinyl acetate, copolyester, etc. being used as compact sheet materials.

Specially developed for the field of orthopaedic technology, the SIMOLIFE line includes a wide range of products spanning various materials. The various types of polymer used within this area display different characteristics. Thus, the demands of orthopaedic technicians with regard to specific production methods can be met in full, as can the personal requirements of each patient.

Plastics are generally acknowledged for their lightweight, skinfriendly properties, as well as offering the benefit of long-lasting functionality. Thanks to the high dimensional stability and efficient processability of the sheet materials, orthopaedic technicians can create orthoses and prostheses that are perfectly adapted to the patient's anatomy.

Each type of plastic offers specific benefits within its defined fields of application.





From polymer category to product range

SIMOLIFE The Right Material for Each Application

	Diagnosis/test sockets	Final prosthetic sockets	Flexible interior prosthetic sockets
SIMOLIFE PE-HWV	4		
SIMOLIFE PE 1000		•	
SIMULIFE FE 1000			
SIMOLIFE PE-W			V
SIMOLIFE PP-DWV		V	
SIMOLIFE PP-C		V	
SIMOLIFE PETG	~		
SIMOLIFE EVA			v

Foot/leg orthoses (AFO, DAFO, KAFO)	Functional foot orthoses (FFO)	Hand/arm orthoses	Corsets
~	~	v	v
~	v		
~	v	v	v
~	V		~
~	V	v	V
	v		

SIMOLIFE Your Benefits at a Glance



More than 35 years' experience

Acknowledged for the consistently high quality of its products, SIMONA has been a trusted partner to the orthopaedic technology sector for many years. Frequent product audits and endurance testing provide essential data for our R&D engineers to make targeted improvements to the SIMONA portfolio on a continual basis. Committed to excellence, we are thus able to offer an innovative, high-quality product range.

Highest quality standards

We only use certified raw materials of the highest quality for the manufacture of SIMOLIFE products. The purity of these raw materials is safeguarded by stringent incoming goods inspections. Continuous quality monitoring during the production process and low-stress sheet extrusion help to guarantee consistent material properties for subsequent use in your field of application.

Excellent processing characteristics

SIMOLIFE products have excellent thermoforming properties. With the help of advanced process engineering, we have reduced the level of material shrinkage to a minimum – a tangible benefit particularly in the field of orthopaedic technology. This translates into excellent dimensional stability and best possible fit.

Very good skin compatibility

On request, selected SIMOLIFE materials can be supplied with antimicrobial properties. This permanently reduces the propagation of microorganisms, such as bacteria and yeasts, thus preventing odours and discolouration to the material. What is more, SIMOLIFE products with antimicrobial properties do not contain silver.

All SIMOLIFE products are physiologically safe as per BfR, EU and FDA and are certified as biocompatible in accordance with DIN EN ISO 10993-5/-10. As a result of these properties and the resistance to sweat, cosmetics, skin creams, detergents and disinfectants, they offer users the combined benefits of safety and reliability.



Product Range

		SIMOLIFE PE-HWV	SIMOLIFE PE 1000	SIMOLIFE PE-W	SIMOLIFE PP-DWV	SIMOLIFE PP-C	SIMOLIFE PETG	SIMOLIFE EVA flex	SIMOLIFE EVA superflex
Sheets (s	izes/thicknesses	in mm)					,		
	400 x 400						9, 10, 12 , 15 , 20	3, 4, 6, 8, 9 , 10 , 12 , 15	6, 9, 10 , 12 , 15
	1,208 x 804						8, 9, 10, 12 , 15 , 20		
	2,000 x 1,000	2, 3 , 4 , 5 , 6 , 8 , 10	1, 2, 3, 4, 5, 6	1 , 1.5, 2 , 3 , 4 , 5 , 6	2, 3 , 4 , 5 , 6	2, 3 , 4 , 5 , 6		3, 4, 6, 8, 9, 10, 12, 15	
\bigcirc	50,000 x 1,000			1, 1.5, 2					
¥	Colours	natural, skin-coloured	natural, black, green	natural	natural	natural	transparent	natural, skin-coloured	natural
	Antimicrobial properties on request	v	_	_	~	-	~	~	_

Bold type = available immediately (colour: natural or transparent); light-faced type = available on request

The sizes specified are standard sizes. Other sizes, thicknesses and colours available on request.

Material specifications

	SIMOLIFE PE-HWV	SIMOLIFE PE 1000	SIMOLIFE PE-W	SIMOLIFE PP-DWV	SIMOLIFE PP-C	SIMOLIFE PETG	SIMOLIFE EVA flex	SIMOLIFE EVA superflex
Density, g/cm³, DIN EN ISO 1183	0.947	0.930	0.928	0.905	0.910	1.270	0.934	0.955
Tensile modulus of elasticity, MPa, DIN EN ISO 527	900	700	350	1,380	1,200	1,900	75	19
Shore hardness D, DIN EN ISO 868	64	60	54	70	67	78	39	29
Processing temperature, °C (oven temperature)*	165 - 180	190 - 215	120 - 130	185 - 215	185 - 215	160 - 170	150 - 160	150 - 160
Heat-up time, min/mm sheet thickness (retention time in oven)*	2 - 3	3 - 4	2 - 3	2 - 3	2 - 3	3 - 4	1.5 - 2.5	1.5 - 2.5
Biocompatibility in accordance with DIN EN ISO 10993-5/-10	V	v	~	v	v	v	~	~
Physiological safety in accordance with BfR, EU and FDA	v	v	v	v	~	v	V	~

* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness.

Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

SIMOLIFE PE-HWV Processing Example: Lower Arm Orthosis











SIMOLIFE EVA Processing Example: Interior Prosthetic Socket





SIMOLIFE PE-HWV



SIMOLIFE PE-HWV

Fields of application	Description	Properties	Certifications
	High-density polyethylene (HDPE)	Superior to LDPE in rigidity and strength	Biocompatibility in accordance with DIN EN ISO 10993-5 and
		Minimal shrinkage, optimized for O&P	DIN EN ISO 10993-10
		Resistant to sweat, cosmetics, skin creams, detergents and disinfectants	Physiological safety in accordance with BfR, EU and FDA

Material specifications

Density, g/cm ³ , DIN EN ISO 1183	0.947
Tensile modulus of elasticity, MPa, DIN EN ISO 527	900
Shore hardness D, DIN EN ISO 868	64
Processing temperature, °C (oven temperature)*	165 - 180
Heat-up time, min/mm sheet thickness (retention time in oven)*	2 - 3

 $^{\ast}~$ The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

Sizes in mm	Thicknesses in mm	Colours	Antimicrobial properties on request
2,000 x 1,000	2, 3 , 4 , 5 , 6 , 8 , 10	natural	~
2,000 x 1,000	2, 3, 4 , 5, 6	skin coloured	~

Bold type = available immediately;

light-faced type = available on request The sizes specified are standard sizes.

SIMOLIFE PE 1000



SIMOLIFE PE 1000

Fields of application	Description	Properties	Certifications
<u>* * * * * *</u>	Ultra-high-molecular-weight polyethylene (PE-UHMW)	High abrasion and wear resistance	Biocompatibility in accordance with DIN EN ISO 10993-5 and
		High impact strength	DIN EN ISO 10993-10
		Resistant to sweat, cosmetics, skin creams, detergents and disinfectants	Physiological safety in accordance with BfR, EU and FDA

Material specifications

Density, g/cm ³ , DIN EN ISO 1183	0.930
Tensile modulus of elasticity, MPa, DIN EN ISO 527	700
Shore hardness D, DIN EN ISO 868	60
Processing temperature, °C (oven temperature)*	190 - 215
Heat-up time, min/mm sheet thickness (retention time in oven)*	3 - 4

* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

Sizes in mm	Thicknesses in mm	Colours
2,000 x 1,000	1, 2, 3, 4, 5, 6	natural
2,000 x 1,000	1, 2 , 3 , 4 , 5 , 6	green

Bold type = available immediately;

light-faced type = available on request

The sizes specified are standard sizes.

SIMOLIFE PE-W



SIMOLIFE PE-W

Fields of application	Description	Properties	Certifications
† † † †	Plasticized polyethylene	Lower rigidity and strength than HDPE	Biocompatibility in accordance with DIN EN ISO 10993-5 and
		High flexibility	DIN EN ISO 10993-10
	(LDPE)	Resistant to sweat, cosmetics, skin creams, detergents and disinfectants	Physiological safety in accordance with BfR, EU and FDA

Material specifications

Density, g/cm ³ , DIN EN ISO 1183	0.928
Tensile modulus of elasticity, MPa, DIN EN ISO 527	350
Shore hardness D, DIN EN ISO 868	54
Processing temperature, °C (oven temperature)*	120 - 130
Heat-up time, min/mm sheet thickness (retention time in oven)*	2 - 3

 $^{\ast}~$ The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

Sizes in mm	Thicknesses in mm	Colours
2,000 x 1,000	1 , 1.5, 2 , 3 , 4 , 5 , 6	natural
50,000 x 1,000	1, 1.5, 2	natural

Bold type = available immediately;

light-faced type = available on request The sizes specified are standard sizes.

SIMOLIFE PP-DWV



SIMOLIFE PP-DWV

Fields of application	Description	Properties	Certifications
† † † †	Polypropylene homopolymer	Higher rigidity and strength than PP-C	Biocompatibility in accordance with DIN EN ISO 10993-5 and DIN EN ISO 10993-10
		Fatigue stability	
		Minimal shrinkage, optimized for O&P	DIV EN 130 10335-10
		Resistant to sweat, cosmetics, skin creams, detergents and disinfectants	Physiological safety in accordance with BfR, EU and FDA

Material specifications

Density, g/cm ³ , DIN EN ISO 1183	0.905
Tensile modulus of elasticity, MPa, DIN EN ISO 527	1,380
Shore hardness D, DIN EN ISO 868	70
Processing temperature, °C (oven temperature)*	185 - 215
Heat-up time, min/mm sheet thickness (retention time in oven)*	2 - 3

* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

Sizes in mm	Thicknesses in mm	Colours	Antimicrobial properties on request
2,000 x 1,000	2, 3 , 4 , 5 , 6	natural	V

Bold type = available immediately;

light-faced type = available on request

The sizes specified are standard sizes.

SIMOLIFE PP-C



SIMOLIFE PP-C

Fields of application	Description	Properties	Certifications
Polypropylene copolymer	Higher impact strength than PP-DWV	Biocompatibility in accordance with DIN EN ISO 10993-5 and	
	Lower susceptibility to stress cracks	DIN EN ISO 10993-10	
	copolymer	Resistant to sweat, cosmetics, skin creams, detergents and disinfectants	Physiological safety in accordance with BfR, EU and FDA

Material specifications	
Density, g/cm ³ , DIN EN ISO 1183	0.910
Tensile modulus of elasticity, MPa, DIN EN ISO 527	1,200
Shore hardness D, DIN EN ISO 868	67
Processing temperature, °C (oven temperature)*	185 - 215
Heat-up time, min/mm sheet thickness (retention time in oven)*	2 - 3

* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

Sizes in mm	Thicknesses in mm	Colours
2,000 x 1,000	2, 3 , 4 , 5 , 6	natural

Bold type = available immediately;

light-faced type = available on request The sizes specified are standard sizes.

SIMOLIFE PETG



SIMOLIFE PETG

Fields of application	Description	Properties	Certifications
		Highly transparent even after processing	Biocompatibility in accordance with DIN EN ISO 10993-5 and
	Thermoplastic copolyester	Excellent thermoforming properties	
		Good postforming properties	Physiological safety in accordance with BfR, EU and FDA

Material specifications

Density, g/cm ³ , DIN EN ISO 1183	1.270
Tensile modulus of elasticity, MPa, DIN EN ISO 527	1,900
Shore hardness D, DIN EN ISO 868	78
Processing temperature, °C (oven temperature)*	160 - 170
Heat-up time, min/mm sheet thickness (retention time in oven)*	3 - 4

* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

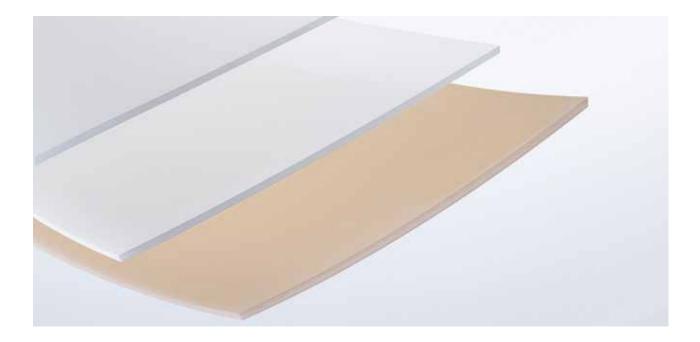
Sizes in mm	Thicknesses in mm	Colours	Antimicrobial properties on request
400 x 400	9, 10, 12 , 15 , 20	transparent	~
1,208 x 804	8, 9, 10, 12 , 15 , 20	transparent	~

Bold type = available immediately;

light-faced type = available on request

The sizes specified are standard sizes.

SIMOLIFE EVA flex



SIMOLIFE EVA flex

Fields of application	Description	Properties	Certifications
* * * * *			with DIN EN ISO 10993-5 and DIN EN ISO 10993-10 Physiological safety in accordance
	Ethylene-vinyl acetate	Minimal shrinkage, optimized	
		for O&P Excellent formability	

Material specifications

Density, g/cm ³ , DIN EN ISO 1183	0.934
Tensile modulus of elasticity, MPa, DIN EN ISO 527	75
Shore hardness D, DIN EN ISO 868	39
Processing temperature, °C (oven temperature)*	150 - 160
Heat-up time, min/mm sheet thickness (retention time in oven)*	1.5 - 2.5

* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

Sizes in mm	Thicknesses in mm	Colours	Antimicrobial properties on request
400 x 400	3, 4, 6, 8, 9 , 10 , 12 , 15	natural	~
400 x 400	6, 8, 10, 12	skin coloured	~
2,000 x 1,000	3, 4, 6, 8, 9, 10, 12, 15	natural	~

Bold type = available immediately;

light-faced type = available on request

The sizes specified are standard sizes.

SIMOLIFE EVA superflex



SIMOLIFE EVA superflex

Fields of application	Description	Properties	Certifications
Ethylene-vinyl acetate	Ethylono vinyl costoto	Very high flexibility	Biocompatibility in accordance with DIN EN ISO 10993-5 and DIN EN ISO 10993-10
		Minimal shrinkage, optimized	
		for O&P	Physiological safety in accordance
		Excellent formability	with BfR, EU and FDA

Material specifications

Density, g/cm ³ , DIN EN ISO 1183	0.955
Tensile modulus of elasticity, MPa, DIN EN ISO 527	19
Shore hardness D, DIN EN ISO 868	29
Processing temperature, °C (oven temperature)*	150 - 160
Heat-up time, min/mm sheet thickness (retention time in oven)*	1.5 - 2.5

* The actual parameters can vary depending on the type and condition of the oven as well as the sheet thickness. Therefore, all figures presented here are for orientation purposes only. The exact parameters will have to be determined by the user.

Product Range

Sizes in mm	Thicknesses in mm	Colours
400 x 400	6, 9, 10 , 12 , 15	natural

Bold type = available immediately;

light-faced type = available on request

The sizes specified are standard sizes.

Advice and Information

Consulting Service

Our customers benefit from customised solutions that help them compete successfully within the business arena. SIMONA can draw on many years of experience in the manufacture of sheets, pipes and fittings. You will also be able to rely on our extensive know-how and high level of technical expertise in the field of polymer engineering. Our Technical Service Centre team looks forward to assisting you:

Phone +49(0)675214-587 Fax +49(0)675214-302 tsc@simona.de

SIMONA Sales Academy

We organise seminars at our Technology Centre and educational facilities in Kirn for the purpose of providing product training and information on the very latest processing and fabrication methods. On request, we can also provide training at your own premises. Contact details:

Phone +49 (0) 67 52 14-251 Fax +49 (0) 67 52 14-60251 salesacademy@simona.de

Information Service

Further information is available in the form of catalogues, brochures, case studies and project reports. We also offer DVDs, technical data sheets and product samples. Please feel free to contact our Marketing department:

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Delivery Service

Our central warehouse and global distribution centres supply SIMONA standard products from stock, thus guaranteeing speedy and flexible delivery. Various sizes and thicknesses available from stock. Please contact our sales department for further details concerning availability.

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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. 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).





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