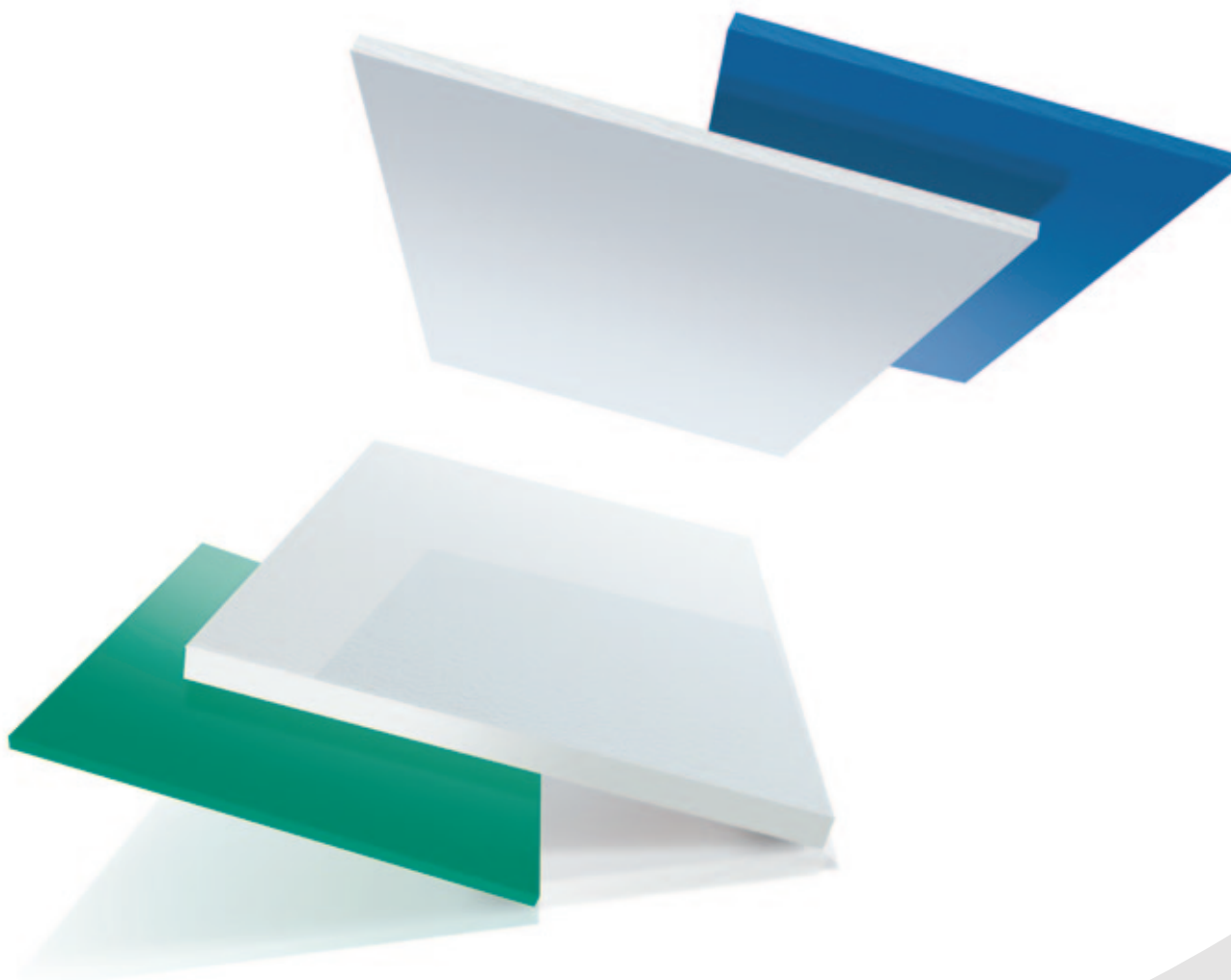


SIMONA



SIMONA® SIMOPOR

Lightweight PVC free-foam sheets

SIMONA® SIMOPOR – Lightweight PVC free-foam sheets



The SIMONA® SIMOPOR product family comprises a range of PVC free-foam sheets that combine low density with ultralight design. All products within this line have a satin-smooth surface finish and offer exceptional versatility when it comes to processing.

Delivering premium quality and aesthetic appeal, SIMONA® SIMOPOR products are the perfect choice for applications centred around light and airy design.

Versatile use

- Exhibition stand design
- Display design
- Advertising signs
- Facade panels
- Room installations
- Furniture design
- Printing sector
- Construction and design
- and more

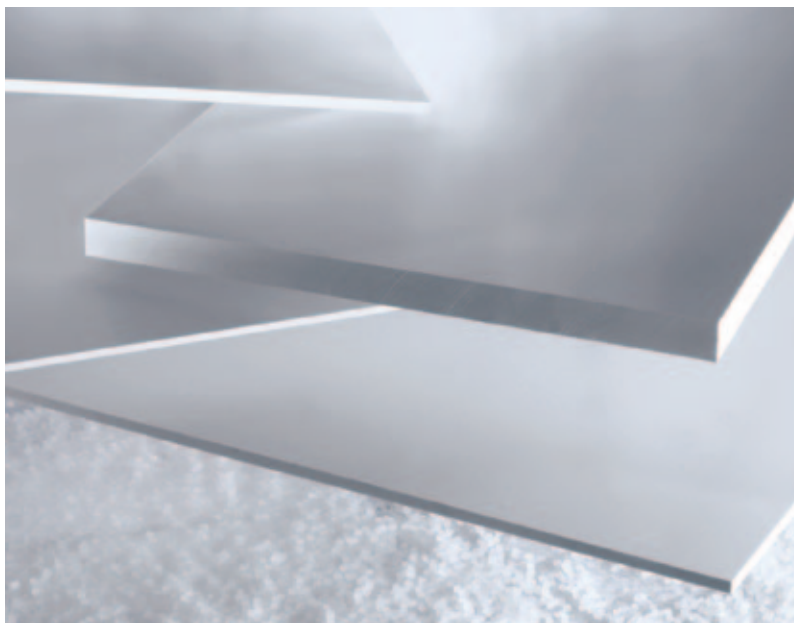
Excellent properties

- Low weight
- Excellent weatherability
- Satin-smooth finish
- Very good printability (digital and screen printing)
- Dimensional stability
- Durability
- Low flammability (depending on product)

Versatile processing

- Sawing
- Bolting
- Drilling
- Milling
- Backing/laminating
- Water-jet cutting
- Glueing
- Hot forming
- Cold curving
- Printing
- Spray painting
- Die-cutting

SIMONA® SIMOPOR Product categories



SIMONA® SIMOPOR

SIMONA® SIMOPOR encompasses the range of classic PVC free-foam sheets, combining low density with high rigidity.

SIMONA® SIMOPOR-LIGHT

SIMONA® SIMOPOR-LIGHT is lower in density than SIMOPOR. This lightweight version is available from stock in thicknesses up to 19 mm. SIMOPOR-LIGHT sheets have excellent processing properties and a particularly attractive surface finish.

SIMONA® SIMOPOR-ULTRALIGHT

SIMONA® SIMOPOR-ULTRALIGHT has an extremely low density, making it particularly light and easy to handle.

SIMONA® SIMOPOR-COLOR

SIMONA® SIMOPOR-COLOR are fully coloured PVC free-foam sheets with a perfectly even surface finish. The sheets are supplied in the colours blue, yellow, green, grey, red and black – for a host of possibilities in exhibition, sign and display design.

SIMONA® SIMOPOR-DIGITAL

SIMONA® SIMOPOR-DIGITAL is a new specialty sheet for digital direct printing – in a brilliant white for more vibrant colours.

Customised solutions

Alongside an extensive range of standardised products, we are also able to supply customised sheets tailored to your personal requirements – featuring special properties, widths and thicknesses.

SIMONA® SIMOPOR-DIGITAL – Colours come to life



Designed specifically for digital direct printing, SIMONA SIMOPOR-DIGITAL offers the ultimate in process reliability for best-in-class results.

SIMONA® SIMOPOR-DIGITAL is one of the first digital-print sheets with antistatic properties. This design feature prevents static charging during the printing process. What is more, the sheets boast an ultrafine surface finish, which in turn facilitates ink acceptance even during high-speed processing.

In addition, SIMONA® SIMOPOR-DIGITAL includes a specially developed white pigment that ensures brilliant picture reproduction.

SIMOPOR-DIGITAL sheets are the perfect choice when it comes to creating high-quality digital direct prints quickly and cost-effectively.

Properties

- Excellent printability on all flatbed printers
- Very good colour acceptance
- Antistatic
- Brilliant white for perfect colour reproduction
- Low weight
- Suitable for all UV and solvent inks
- High degree of flatness
- Low flammability in accordance with DIN 4102 B1
- UV-stabilised
- Excellent value

INFO

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SIMONA® SIMOPOR Product range

Product range

| | | SIMONA® SIMOPOR | SIMONA® SIMOPOR- LIGHT | SIMONA® SIMOPOR- ULTRALIGHT | SIMONA® SIMOPOR- COLOR | SIMONA® SIMOPOR- DIGITAL |
|---|-------------|----------------------------|---------------------------------------|--|--|---|
|  | 2000 x 1000 | 1 to 5 | 1 to 19 | | | |
| | 2440 x 1220 | 1 to 5 | 1 to 19 | | 3 to 6 | |
| | 3050 x 1220 | 1 to 5 | 1 to 19 | | 3 to 6 | |
| | 3050 x 1530 | 1 to 5 | 1 to 19 | | 3 to 6 | 3, 5, 10 |
| | 3050 x 2030 | 1 to 5 | 1 to 15 | 3 to 10 | 3 to 6, 10 (black) | 3, 5, 10 |
| | Colours | white | white | white | blue, yellow, green, grey, red, black | white |

Dimensions in mm.

Selection of sheets in various sizes and thicknesses available from stock.

Please contact our sales department for further details concerning availability.



Low flammability

SIMONA® SIMOPOR-LIGHT is a low-flammability sheet (DIN 4102 B1), which makes it the perfect choice for exhibition and display design.



Satin-smooth finish

The unique surface of SIMONA® SIMOPOR-LIGHT is stylish in appearance and suitable for backing, spray painting and adhesive film coating.



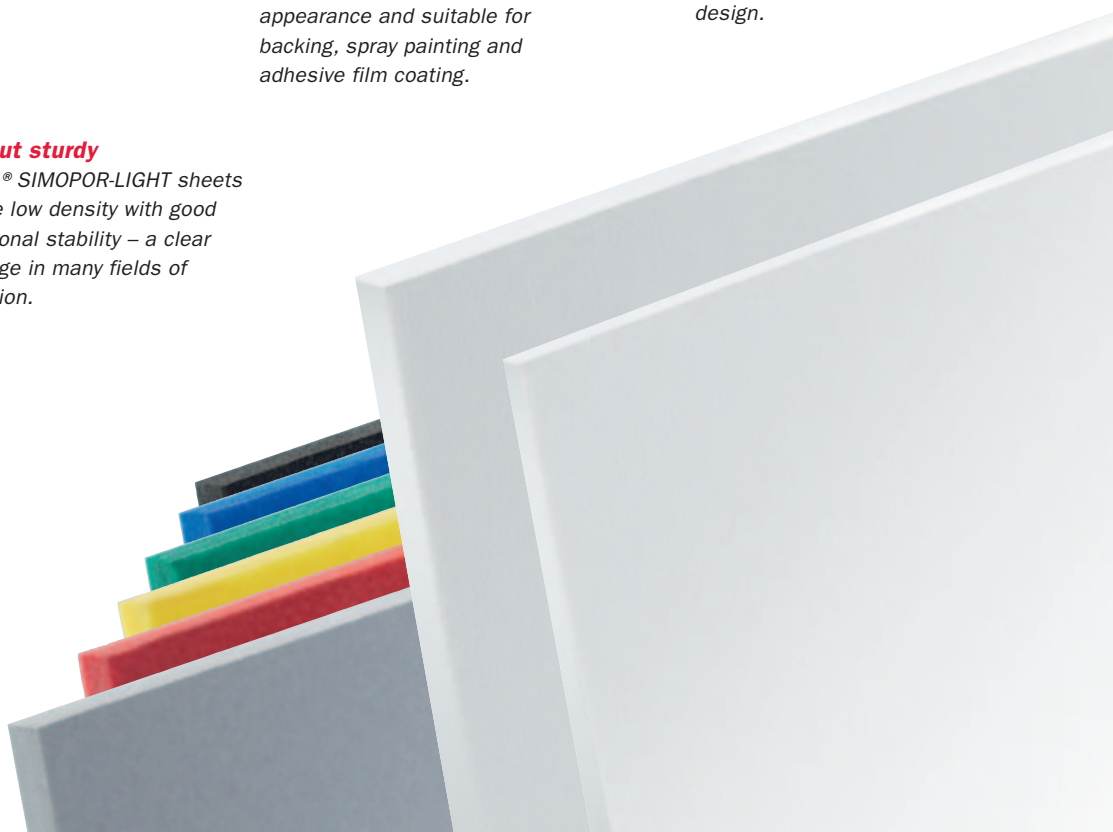
Light but sturdy

SIMONA® SIMOPOR-LIGHT sheets combine low density with good dimensional stability – a clear advantage in many fields of application.



More colours – more possibilities

Choose from six colours in the SIMONA® SIMOPOR-COLOR line and let your creativity flow



SIMONA® SIMOPOR Material specifications

Material specifications

| | SIMONA® SIMOPOR | SIMONA® SIMOPOR- LIGHT | SIMONA® SIMOPOR- ULTRALIGHT | SIMONA® SIMOPOR- COLOR | SIMONA® SIMOPOR- DIGITAL |
|---|-------------------------------|--------------------------------|-----------------------------------|------------------------------|--------------------------------|
| Density, g/cm ³ | 0.730 | 0.550 | 0.460 | 0.600 | 0.550 |
| Yield stress, MPa | 23 | 16 | 15 | 16 | 16 |
| Elongation at yield, % | 3 | 3 | 3 | 3 | 3 |
| Elongation at break, % | 26 | 19 | 19 | 19 | 19 |
| Tensile modulus of elasticity, MPa | 1400 | 900 | 600 | 1000 | 900 |
| Impact strength, kJ/m ² | 17 | 12 | 12 | 12 | 12 |
| Shore hardness, D | 55 | 49 | 40 | 49 | 49 |
| Mean coefficient of linear thermal expansion, K ⁻¹ | $0.7 \cdot 10^{-4}$ | $0.7 \cdot 10^{-4}$ | $0.7 \cdot 10^{-4}$ | $0.7 \cdot 10^{-4}$ | $0.7 \cdot 10^{-4}$ |
| Thermal conductivity, W/m · K | 0.09 | 0.07 | 0.06 | 0.07 | 0.07 |
| Specific surface resistance, ohm | $> 10^{15}$ | $> 10^{15}$ | $> 10^{15}$ | $\leq 10^{15}$ | $\leq 10^{12}$ |
| Fire behaviour, DIN 4102 with B1 Test Certificate | low flammability 1 to 5 mm | low flammability 1 to 19 mm | normal flammability | normal flammability | low flammability 3 to 10 mm |
| Physiologically safe according to BfR, FDA and EU Regulation | no | no | no | no | no |
| Temperature range, °C | 0 to +60 | 0 to +60 | 0 to +60 | 0 to +60 | 0 to +60 |

As one of the world's leading manufacturers of semi-finished thermoplastics and finished parts, SIMONA offers you best-in-class product quality and exceptional engineering expertise.

Our Quality and Environmental Management system is certified in accordance with DIN EN ISO 9001:2008 and DIN EN ISO 14001:2005



With the compliments of:

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