

**SIMONA**



**SIMONA<sup>®</sup> PE FOAM/SIMONA<sup>®</sup> PP FOAM**

Foamed Plastic Sheets

## Light Weight and High Rigidity – SIMONA® PE FOAM/SIMONA® PP FOAM



**Featuring a closed-cell foamed core and coextruded outer layers, the new sheets SIMONA® PE FOAM and SIMONA® PP FOAM provide an outstanding combination of light weight and high rigidity.**

### **Excellent properties**

- Very easy to process
- Excellent surface quality
- High flexural strength
- Corrosion-free
- Easy to clean
- UV-resistant (PE FOAM)
- Printable after pretreatment

### **SIMONA® PE FOAM**

SIMONA® PE FOAM combines excellent processing properties with the benefits of high surface quality and low water absorption. With SIMONA® PE FOAM it is possible to replace many applications that use plywood and MDF (medium density fibreboard). Compared to the latter wood-based materials, PE FOAM is much more durable, especially in applications exposed to moist/wet conditions.

SIMONA® PE FOAM features UV stabilisation as standard and has a scratch-resistant embossed surface.

### **SIMONA® PP FOAM**

SIMONA® PP FOAM sheets have smooth, compact surfaces and offer maximum rigidity. Owing to these properties, together with good chemical resistance, excellent fabrication capability and low water absorption, SIMONA® PP FOAM is ideal for linings, encasements and, in apparatus construction, for applications with non-critical chemical and mechanical stresses.

# Fields of Application and Properties

## SIMONA® PE FOAM/SIMONA® PP FOAM

### Fields of application

#### SIMONA® PE FOAM

- Boatbuilding (partitions, bulkheads, control desks, etc.)
- Banner material
- Toilet containers, toilet walls and toilet doors
- Partitions in agriculture and livestock farming

### Fields of application

#### SIMONA® PP FOAM

- Apparatus components
- Encasements
- Tank covers
- Transport containers
- Small sewage treatment plants
- Packaging systems
- Insulation components
- Reusable containers
- Linings



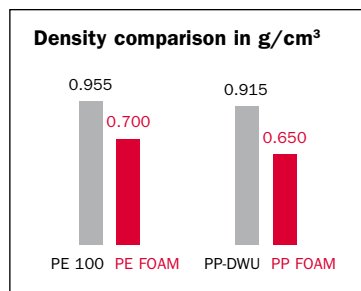
### + Excellent fabrication capability

Owing to their low inherent stresses and strains, SIMONA® PE FOAM/SIMONA® PP FOAM sheets are ideal for processing in many different ways and are easy to clean.

#### Fabrication processes

- Welding
- Thermoforming
- Hot bending
- Cutting
- Drilling
- Milling
- Sawing
- Water-jet cutting
- Die cutting
- Printing after pretreatment
- Cut edges can be sealed with edge strips

### + Light weight, low density and high rigidity



The chart illustrates the difference in densities of compact PE and PP compared to SIMONA® PE FOAM and SIMONA® PP FOAM.

### + UV stability


SIMONA® PE FOAM is UV-stabilised and suitable for outdoor use.



# Range of Products and Material Specifications

## SIMONA® PE FOAM/SIMONA® PP FOAM

### Range of products

	SIMONA® PE FOAM	SIMONA® PP FOAM	
<b>Extruded sheets (formats/thicknesses)</b>			
	2000 x 1000 mm	<b>6, 8, 10</b>	5, 6, 8, 10, 15, 20
	2000 x 1250 mm	10	–
	3000 x 1500 mm	–	<b>5, 6, 8, 10, 15, 20</b>
	Colours	white	grey

All dimensions in mm. Other formats, colours and intermediate thicknesses are available on request.  
Stock availability of products: **Bold face** = available immediately; light face = available on request

### Material specifications

	SIMONA® PE FOAM	SIMONA® PP FOAM
Density, g/cm <sup>3</sup> , DIN EN ISO 1183	0.700	0.650
Tensile modulus of elasticity, MPa, DIN EN ISO 527	700	1100
Shore hardness, D, DIN EN ISO 868	61	71
Fire behaviour, DIN 4102	normal flammability	normal flammability
Temperature range, °C	–50 to +80	0 to +100



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