



# SANITARY INDUSTRY

senosan®



## **senosan® – Unlimited possibilities!**

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Senoplast offers a wide range of applications in the area of sanitary and wellness. The emphasis is on development and marketing of high value plastic sheets for applications in the sanitary and solaria industry.

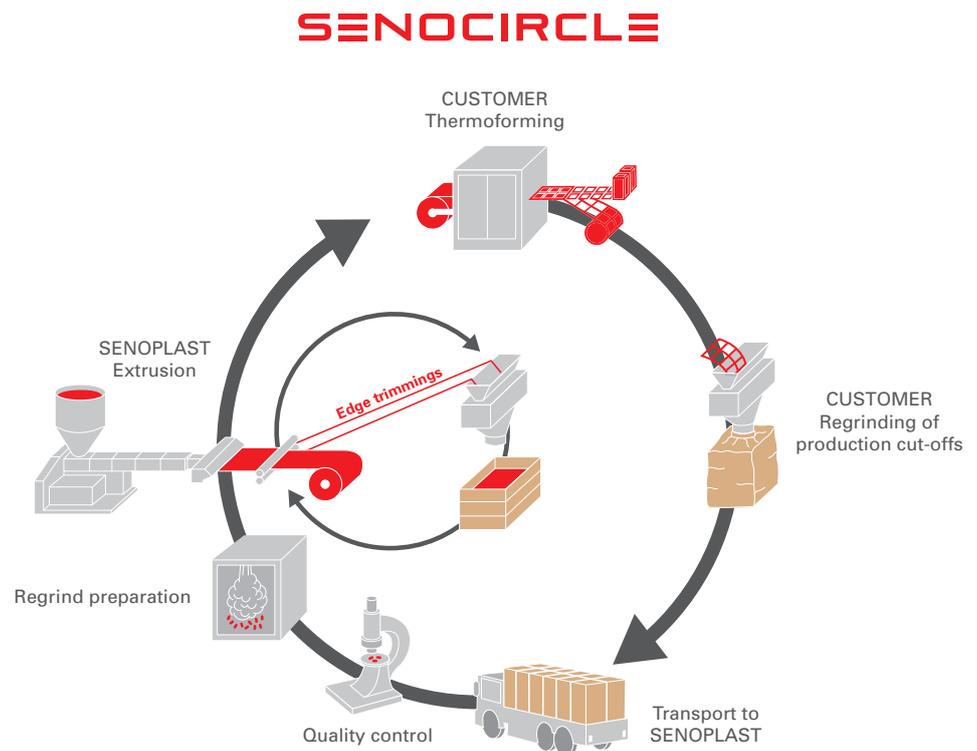
Due to constant product innovations over the course of recent years, Senoplast has established itself as quality and market leader in this branch.

The brand name **senosan®** is a synonym for highest quality and customer-made solutions – the sheets produced by Senoplast captivate by outstanding design and innovation!

## **The Green Spirit**

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Almost all **senosan®** products are 100% recyclable. For many customers, the re-use of regrind is an environmentally friendly and economical alternative. Edge sections and milling waste, which remain after the thermoforming process, can be granulated and recycled. It should be taken care to clearly separate regrind of different raw materials like ABS or ABS/PMMA from each other.



## senosan® for bathroom and wellness area

senosan® 3000 and senosan® 2000 are high value coextruded sheets produced from ABS and PMMA and offer an excellent starting material for the manufacture of thermoformed sanitary components with demanding design. These surfaces made of sanitary acrylic impress with a variety of product characteristics and are available with a high gloss and a supermatt surface.



- » Brilliant surfaces made from sanitary acrylic with highest value optical effect
- » Excellent, warm surface
- » Chemical resistance
- » High impact strength
- » Long durability
- » Excellent design possibilities
- » easyglide® layer
- » Low specific weight
- » Low thickness tolerance
- » Established sanitary colors available as standard colors. Special colors can be produced on customer request.
- » Recyclable
- » Repairable
- » Low memory effect

ADVANTAGES



## senosan® Product overview

Product group	Quality
senosan® 3000	Superior quality with highest chemical resistance, meets EN 13559
senosan® 2000	Standard quality with good chemical resistance

Products	Surface	Application	Thickness	Width*
senosan® 2000BM/3000BM	high gloss	Bathtubs	2.0 – 11.0 mm	500 – 2,700 mm further widths on request
senosan® 3000BM SOLAR	high gloss	Outdoor bathtubs	3.0 – 11.0 mm	
senosan® 2000X/3000X	high gloss	Shower trays, wall liners, shower cubicles, bath panels, hand basins	2.0 – 11.0 mm	
senosan® BM SUPERMATT	matt	Bathtubs	4.0 – 11.0 mm	
senosan® X SUPERMATT	matt	Various sanitary applications (except bathtubs)	3.0 – 6.0 mm	

Version **BM** with 10% PMMA top layer / version **X** with 5% PMMA top layer

\*For deliveries of oversized sheets we kindly ask you to contact us separately regarding transport options and prices.

## senosan® with antibacterial surface

A further enhancement of our **senosan®** sheets is the added value of providing an antibac® surface to meet the challenging environments of use.

These multilayer composites consist of a main extrusion ABS layer and a co-extruded high-gloss PMMA top layer with good stress-cracking resistance as well as an easyglide® rear side. **senosan® 3000 antibac®** features a high chemical resistant, impact modified PMMA top layer and meets the requirements of EN 13559\*. One of the most outstanding properties of the **senosan® antibac®** sheets is the antimicrobial surface, that is up to 99,99% germ-reducing according to ISO 22196.

Possible applications are shower trays, wall liners, shower cubicles, bath panels, hand basins and bathtubs.



- » Surface is protected from attack by microbes
- » Antimicrobial effect has been tested and confirmed in accordance with ISO 22196 by an independent, certified test institute



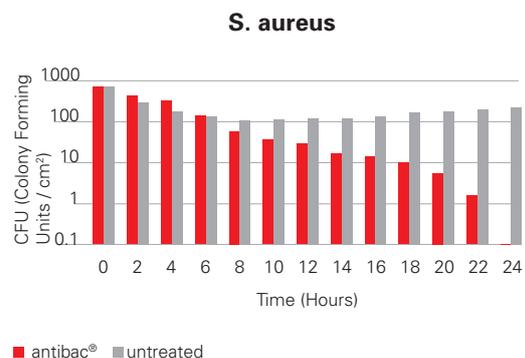
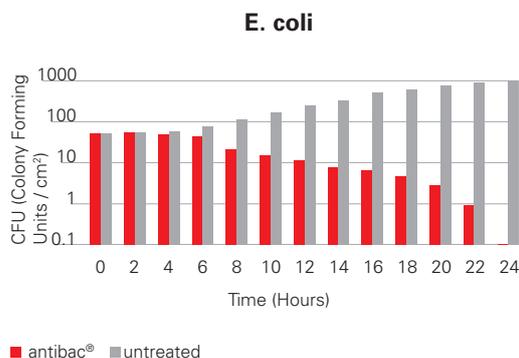
Antibac®

ADVANTAGES

### Product overview

Product	Thickness	Width	Surface	Colors
senosan® 3000X antibac® senosan® 2000X antibac®	2.0 – 11.0 mm	500 – 2,700 mm further widths on request	smooth, high gloss	all sanitary standard colors limitations may exist for very bright white colors
senosan® 3000BM antibac® senosan® 2000BM antibac®				

\*EN 13559 is valid from sheet thickness of 2.7 mm  
**senosan® 3000 antibac®** meets the requirements of EN 13559  
**senosan® 2000 antibac®** does not meet the requirements of EN 13559



## senosan® with stone embossing

### Stone embossing & stone embossing supermatt

The latest development within the **senosan®** 3000 series is a material with a stone embossing surface effect, which is hardly distinguishable from natural slate.

Can be used, for example, for wall liners, shower bases and shower trays.



- » Distinguished formability
- » Stone-like surface texture

ADVANTAGES

### Product overview

Product	Thickness	Width	Surface	Colors
senosan® 3000X stone embossing / 007GR	2.0 - 6.0 mm	400 - 1,600 mm	high gloss, embossed (007GR/ stone embossing)	white 1796
senosan® X SUPERMATT stone embossing / 007GR	2.0 - 6.0 mm	400 - 1,600 mm	matt, embossed (007GR/ stone embossing)	uni colors: white 1796, grey 85633, grey 85465, black 81083 effect colors: black 8102/black met. 81026, grey 85465/grey MS 85652



### Surfaces with decorative films – senosan® A1350D EG

In addition to the classic sanitary sheet portfolio, Senoplast offers laminated ABS sheets with a decorative film.



Surface examples with laminated decorative film

## Bathing in **senosan**<sup>®</sup> quality

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### Processing

The excellent and perfectly balanced flow properties of **senosan**<sup>®</sup> sanitary sheets allow problem-free processing on modern thermoforming equipment. Even sharp and complicated formings can be achieved in high quality.

### *easyglide*<sup>®</sup>

Due to this specially developed back layer, the material offers consistent distribution during thermoforming. When using a thermoforming machine with an automatic sheet feeding system, the sheets fitted with *easyglide*<sup>®</sup> can be centred without problem.

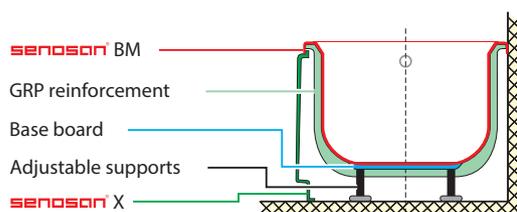
### Repair

In the case of surface damage to sanitary parts, the material can be easily repaired by using a 2-component polymerisation adhesive.

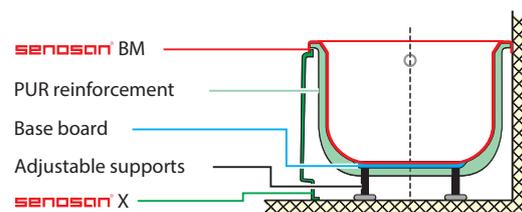
## Reinforcement methods

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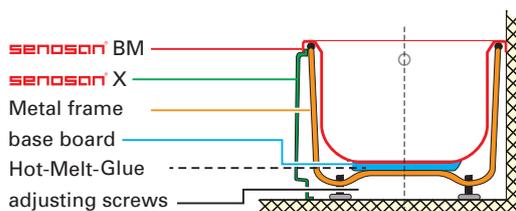
### GRP (fibreglass)



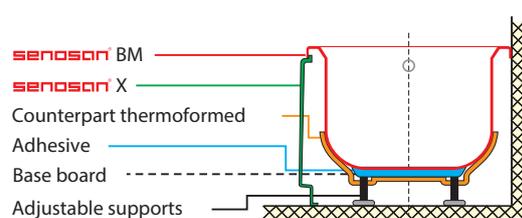
### PUR-foam



### Partially reinforced with a metal frame and a base board (recyclable)



### Twin walled (recyclable)

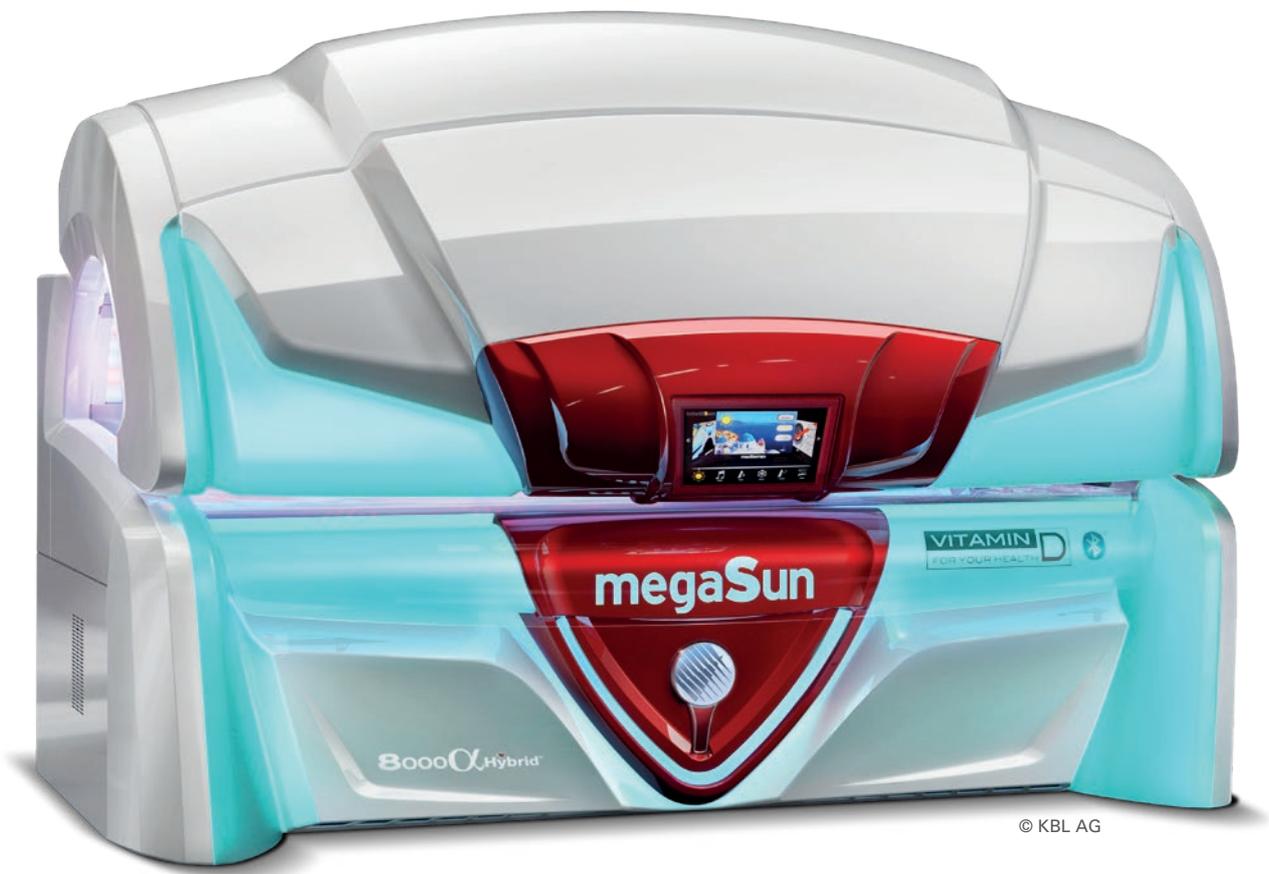




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## **senosan<sup>®</sup>** for tanning equipment

The solarium world is subject to constant innovation and further developments – above all, in matters of color. Senoplast developed a product especially for solarium manufacturers that optimally fulfills the requirements of this area – **senosan<sup>®</sup>** AM50 SOLAR EG – a co-extruded multi-layer sheet of ABS and PMMA available in many solid and metallic colors. This product offers a lot of design possibilities and excellent UV resistance.



Customer-specific color matching makes it possible to take into account current color trends and include them in the product range. These are really shining prospects!

**ADVANTAGES**

## senosan® for Whirlpools

Outdoor whirlpools are becoming increasingly popular, and Senoplast can also offer a suitable product for this very special application.

senosan® aqua and senosan® metaliX aqua are multilayer composites with a HI-ABS layer and a co-extruded, high gloss top layer of impact modified PMMA.

This top layer is high chemical and stress-cracking resistant. Furthermore, the sheet is UV-resistant and therefore ideally suited for outdoor applications.



- » Superior chemical resistance
- » Excellent thermoformability
- » UV-resistance
- » easyglide®-rear side

ADVANTAGES

### Product overview

Product	Thickness	Width	Surface	Colors
senosan® aqua	4.6 – 11.0 mm	up to 2,600 mm*	smooth, high gloss	uni colors
senosan® metaliX aqua	4.6 – 11.0 mm	up to 2,600 mm*	smooth, high gloss	metallic colors

\*For deliveries of oversized sheets we kindly ask you to contact us separately regarding transport options and prices.

#### Uni colors



**aqua**  
white 11119

**aqua**  
beige 7240

**aqua**  
grey 8072

#### Metallic colors



**metaliX aqua**  
white 1889 /  
pearl 11120

**metaliX aqua**  
grey 85122 /  
silver met. 85403

**metaliX aqua**  
grey 8916 /  
grey met. 8915

**metaliX aqua**  
blue 4450 /  
blue met. 4729



# GLASSEFFECTS

senosan® TopX GLASS | senosan® TopMatt GLASS

## SENOSAN® GLASS

*glossy or matt finish – news regarding the bathroom design*

Glass fronts create an elegant appearance in interior design. Real glass however is a very demanding and sensitive material with regard to impact and cleaning properties. The solution is: senosan® TopX GLASS and senosan® TopMatt GLASS – high quality surfaces with glass effect, giving the appearance of depth. This co-extruded material combines the aesthetic advantages of real glass fronts with the processing and practical advantages of senosan® sheets. senosan® GLASS is now also available in matt optics (milk glass).



- » Claim free processing
- » Ability to be cut and drilled on site for fitting of handles
- » Low in weight – flexible fitting on site
- » Excellent impact strength and scratch resistance
- » Easy to clean and maintain

ADVANTAGES

## Trend colors

The 2 mm thickness creates a glass effect, optically enhanced by the milled edges. The material is available ex stock in the following colors:

### High gloss surfaces



### Matt surfaces



#### Product name:

senosan® TopX GLASS  
senosan® TopMatt GLASS

#### 8 trend colors available ex-stock:

white 11045, white 11145, white 11022,  
beige 7516, beige 7529, green 5367,  
grey 85474, grey 85648

#### Sizes:

2,800 × 1,300 × 2.00 mm  
2,440 × 1,220 × 2.00 mm

FACTS

For all **senosan®** products, before ordering please definitely ask us for an original color sample! All the colors in this brochure are given for orientation only. In no way can they be seen as legally binding! Product and color changes, all rights reserved.

NOTE

## Technical details

Product	Finish	Scratch resistance	Gloss level (60°)	Thickness (mm)	Colors	Application
senosan® TopX GLASS	Surface protection film, Corona on reverse, coating	Martindale IHD-W-466 Class 1	Gloss units app. 90	2.00	Colored	Flat lamination
senosan® TopMatt GLASS	Surface protection film, Corona on reverse, coating	Class 4C >4,5 N Erichsen DIN 68861/T4	Gloss units < 8	2.00	Colored	Flat lamination

The technical data stated in the brochure has been developed by Senoplast Klepsch & Co. GmbH to the best of its knowledge and belief and is based on the current knowledge and experience of Senoplast. The data are non-binding and do not represent a material specification or an assurance of certain properties. The buyer is not exempt from subjecting the products to their own tests and checking the suitability for the respective application. Senoplast does not assume any liability for that. These instructions are expressly subject to change. An indemnification of the buyer or of third parties in the case of claims by third parties due to the infringement of property rights is not granted either directly or indirectly.

# SENOPLAST

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