



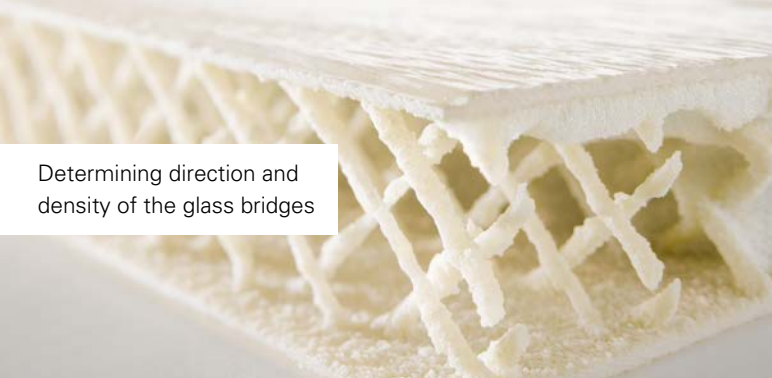
# SAERfoam<sup>®</sup>

## STRUCTURAL CORE

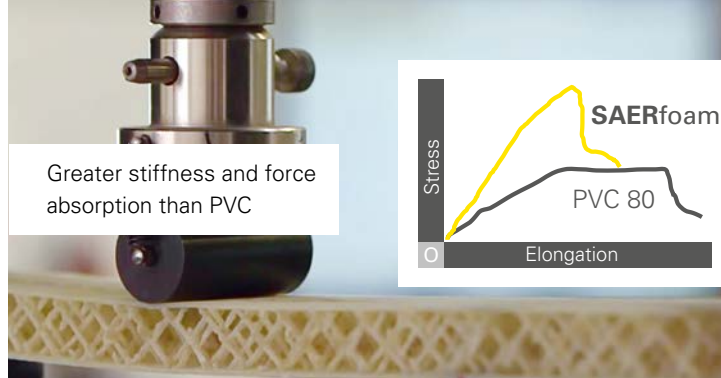
## WITH 3D GLASS BRIDGES

Choose hybrid core material made of ultralight foam combined with **3D glass reinforcements**. SAERfoam<sup>®</sup> is the innovative way to replace PVC, PET and balsa wood. Benefits include highly individualised mechanical properties, lower weights and various other advantages throughout your production process.

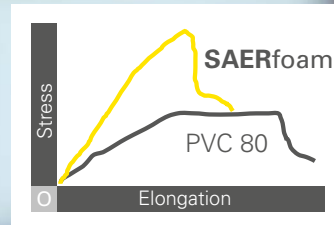
- 1 Tailor-made material properties**  
Control strength, weight and material costs individually via density and direction of 3D bridges and types of foam.
- 2 Easy to process**  
Easy to cut with a cutter knife. // Good flexibility with complex geometries. // Quick impregnation with resin.
- 3 Time savings thanks to services and systems**  
Thanks to grooves for optimised resin flow. // With grid pattern for easy draping. // Available with contour cuts or as a complete set.
- 4 Excellent impact resistance**  
E.g. for longer components. // Up to 5x stiffer (shear modulus higher) compared to PVC. // Equivalent to balsa – at considerably lower weight.
- 5 Compatible with all resins**  
Field- and lab-tested with resins from leading manufacturers. // Moisture-resistant // Ideal as a substitute for balsa wood.
- 6 Reliable quality**  
GL and BV certification. // Reproducible and homogeneous quality compared to renewable materials.



Determining direction and density of the glass bridges



Greater stiffness and force absorption than PVC



3D structural sandwich



Time savings thanks to ready-made kits

SPECIFICATION	SAERfoam I	SAERfoam X	SAERfoam O
STANDARD			
Method	Infusion, RTM, compression	Infusion, RTM, compression	Infusion, RTM, compression
3D glass bridge material	E-Glas	E-Glas	E-Glas
3D glass direction	90°	+/- 45° along panel	+/- 45° along & across panel
Thickness (mm)	10, 15, 20, 25, 30, 35, 40	10, 15, 20, 25, 30	10, 15, 20, 25, 30
Dimensions (mm x mm)	1,200 x 2,400	1,200 x 2,400	1,200 x 1,200
CUSTOMISABLE (on request)			
Foam material		PU/PE/PIR and others possible on request	
Bridge density (x0.1 b/cm <sup>2</sup> )	20–40	08–13	10–25
Services: cutting & kitting	✓	✓	✓
SYSTEM COMBINATIONS			
■ with stitch-bonded fabrics	✓	✓	✓
■ with other SAERTEX products	✓	✓	✓

COMPARATIVE TESTS	PET	PVC	Balsa	SAERfoam PU25 O25-30 Vinylester-resin	SAERfoam PU25 O25-35 Epoxy-resin
Density (dry) (kg/m <sup>3</sup> )	110	80	154	52	55
Density (impregnated) (kg/m <sup>3</sup> )	160	128	275	190	211
Compression strength (MPa) (perpendicular to the plane)	1.54	1.38	13.2 (6)*	2.75	2.8
Compression module (MPa) (perpendicular to the plane)	87	95	4,160 (1,350)*	90	150
Shear resistance (MPa)	0.86	1.15	3.03 (1.6)*	1.13	1.8
Shear modulus (MPa)	26	30	172 (125)*	120	120

Methods: ISO 844, ISO 1922/ASTM C393 // PET, PVC and balsa figures = the average data from three different competitors \*( ) = min. guaranteed value



Applications and information:  
SAERfoam product film  
at [www.saertex.com/saerfoam](http://www.saertex.com/saerfoam)

REINFORCING YOUR IDEAS