TOP-lite® GRP

PRODUCT DESCRIPTION

Outside top layer: GRP gelcoat, white*

Core: PU-foam

Inside top layer: GRP woven roving, white

* other colours on request

The combination of a rigid foam core with glass fibre reinforced facing sheets results in an extremely light weight composite with excellent mechanical properties. Spray painting is not necessary due to the gelcoat outer surface.

PROPERTIES

- high stiffness and stability
- low weight
- high quality finished gelcoat outer surface
- non condensing

- easy workability
- simple to spray paint and easy to repair
- wide range of dimensions (thickness 17 – 80 mm, length up to 14000 mm)
- good insulation

DIMENSIONS

Format	Length [mm]	Width [mm]	Thickness [mm]
Standard	4500	2300	25
	5500	2450	25
Special dimensions*	max. 14000	max. 2900	max. 80

Tolerances	Length [mm]	Width [mm]	Thickness [mm]
Standard (untrimmed)	+1/-4	+1/-3	+0/-1
Cut to size	+2/-2	+1/-2	+0/-1

*available on request: minimum quantity 300 m²

TOP-lite® GRP

GENERAL PHYSICAL PROPERTIES

Service temperature
[°C]
-30 to +80

MECHANICAL PROPERTIES

Thickness [mm]	Weight per unit area [kg/m²]	Thermal insulation U-value [W/m²K]	Modulus of elasticity [N/mm²]	Bending strength [N/mm²]*	Bending stiffness [Nm²]**
17	4,2	1,23	1620	8,9	663
20	4,3	1,06	1310	7,6	873
25	4,5	0,86	960	6,0	1250
30	4,7	0,73	750	5,2	1688
40	5,1	0,55	490	4,0	2613

*values determined with three-point-bending test acc. to ISO 178: test sample width 80 mm/support distance 250 mm
**valid per 1 m panel width/support distance 500mm

APPLICATIONS

Roofs, front panels, sidewalls, doors and partitions for distribution and refrigerated boxes for trucks

Housings

Customized application according our mission design your composite