



LAMILUX High Strength X-treme

- Innovative fiberglass solutions





product description and application

Description LAMILUX High Strength X-treme is a fiberglass product based on a new resin system and excellent glass content. It represents a newly developed material to achieve superior tensile and flexural moduli and strengths.



Superior tensile and flexural strength



LAMILUX High Strength X-treme is available

- In thicknesses of 1.0 mm up to 2.0 mm
- With woven and multiaxial fabrics and chopped strand-mat-reinforcement
- In sheets or coils
- With smooth, corona treated or presanded back side
- Other thicknesses, dimensions and colors on request
- Gelcoat on request

Specific advantages

- Superior tensile and flexural strength
- High HDT

Application

- Construction panels
- Truck-flooring

Technical Values for LAMILUX High Strength X-treme

Technical dates and mechanical properties LAMILUX High Strength X-treme	Test method		Uniaxial fabric Woven fabric	Biaxial fabric Woven fabric	Biaxial fabric Chopped Strand Mat	Quadraxial fabric Woven fabric
Thickness	internal		1.4 mm	1.5 mm	1.2 mm	1.4 mm
Weight	internal		2450 g/m ²	2500 g/m ²	2050 g/m ²	2200 g/m ²
Glass content	internal		64 %	68 %	40 %	52 %
Flexural strength	DIN EN ISO 14125	longitudinal transversal	920 N/mm ² 100 N/mm ²	440 N/mm ² 170 N/mm ²	380 N/mm ² 160 N/mm ²	180 N/mm ² 150 N/mm ²
Flexural modulus	DIN EN ISO 14125	longitudinal transversal	30000 N/mm ² 11000 N/mm ²	14500 N/mm ² 13200 N/mm ²	12400 N/mm ² 7200 N/mm ²	6200 N/mm ² 3100 N/mm ²
Tensile strength	DIN EN ISO 527-4/2/2	longitudinal transversal	460 N/mm ² 130 N/mm ²	520 N/mm ² 120 N/mm ²	275 N/mm ² 235 N/mm ²	260 N/mm ² 210 N/mm ²

These values are only valid for the product quality and thickness written in the table. The information submitted in this data sheet is based on our current knowledge and experience, no responsibility is taken for the correctness of the details provided. These data do not relieve processors from the responsibility of carrying out their own tests. This is not a specification. Further detailed information are available on request.