



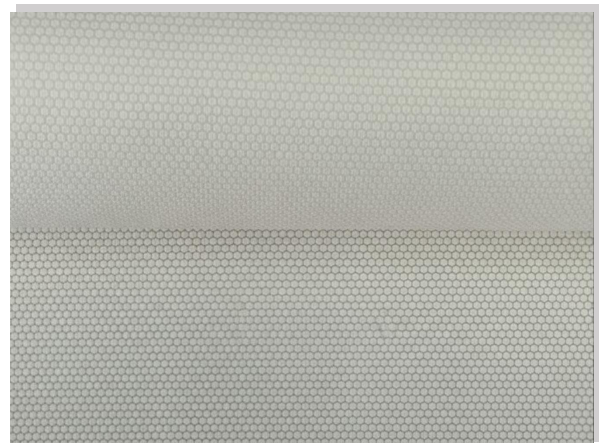
Yihe Core

DESCRIPTION

- Core materials and resin flow medium for closed mould processes, including infusion and RTM.
- Pressure-stable polyester non-woven fabrics and compatible with all regular types of resins, including unsaturated polyester, vinyl ester, phenolic and Epoxy.

APPLICATIONS

- Marine: Yacht and boat hulls, decks and structural components
- Transportation: interior and exterior parts of cars, trailers, trucks, RV, buses and trains
- Leisure: kayaks, surfboards, swimming pool
- Industrial: furniture, exterior wall panels of buildings, fans, pressure vessels, storage tanks, artificial stones
- Wind energy: nacelle covers and blades



ADVANTAGES

- A cost-effective core material
- Hexagonal closed-cell structure exhibits high compression resistance and enables weight reduction
- Improve parts appearance
- Superior conformability
- Improvement of impact resistance and stiffness
- Fast resin flow along channels between hexagons
- Available in max. 3mm thickness

BASIC PROPERTIES

Properties		PS2	PS3
Thickness	mm	2.0	3.0
Thickness loss at 0,8bar	%	< 13	< 13
Roll length	m	80	50
Roll width	m	1.27	1.27
Max processing temperature	°C	180	180
Dry weight	g/m ²	130	180
Resin uptake	kg/m ² /mm	0.4-0.6	
Density impregnated	kg/m ³	600-700	

MECHANICAL PROPERTIES OF PS2 (AFTER IMPREGNATED WITH UNSATURATED POLYESTER RESIN)

Mechanical properties	Unit	Value	Test Method
Flexural strength	Mpa	18	ASTM D790
Flexural modules	Mpa	1100	ASTM D790
Tensile strength across layers	Mpa	6.5	ASTM C297
Compression strength:10%strain	Mpa	4.4	ISO 844
Shear strength	Mpa	6.5	ASTM C273-61
Shear modules	Mpa	50	ASTM C273-61

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Notes:

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