



Yihe Core

YIHE CORE PX

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- The cost effective solution for closed mould process
- It is used as core material and infusion medium
- It is a pressure stable polyester non-woven and compatible with all regular types of resins, including Unsaturated Polyester Resin, Vinyl ester, Phenolic and Epoxy
- It is suitable for closed mould processes, including Infusion, RTM Light, RTM Heavy

APPLICATIONS YIHE CORE

- Marine: hulls, decks and structures of boats and yachts
- Transportation: parts and panels of cars, trailers, trucks and RV's
- Mass transit: interior and exterior of trains, light rail and buses
- Leisure: kayaks, surfboards, pools and tubs ,Swimming Pool and bathroom
- Industrial: Furniture , cladding panels, fans, containers and tanks
- Wind energy:nacelle covers and spinners

BASIC PROPERTIES

Properties		PX 1.5	PX 2.0	PX 3.0
Thickness	mm	1.5	2.0	3.0
Thickness loss at 0,8bar	%	<10	<10	<10
Roll length	m	70	60	40
Roll width	m	1.27	1.27	1.27
Max processing temperature	°C	180	180	180
Dry weight	g/m ²	120	150	220
Resin uptake	kg/m ² /mm	0.3-0.4		
Density impregnated	kg/m ³	400-500		

YIHE CORE PX TYPICAL MECHANICAL PROPERTIES (WITH UNSATURATED POLYESTER RESIN)

Mechanical properties	Unit	Value	Test Method
Flexural strength	Mpa	15	ASTM D790
Flexural modules	Mpa	1100	ASTM D790
Tensile strength across layers	Mpa	4	ASTM C297
Compression strength:10%strain	Mpa	5	ISO 844
Shear strength	Mpa	5	ASTM C273-61
Shear modules	Mpa	30	ASTM C273-61

Notes:

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ADVANTAGES

- The product has a diversion groove as a diversion medium; No need to use additional diversion materials
- Better compressive performance
- As a choice for low-cost core materials
- Reduce product weight
- Increase product rigidity
- Can make the appearance of the product more beautiful
- Excellent conformal performance
- Excellent impact resistance
- The thickness of the product can be controlled as needed
- Max thickness 10mm, hexagonal core with non-absorbing resin, low compression rate (10%@-0.8bar)
- Flow channel 0.5mm, between adjacent hexagons to accelerate resin flow