

clear ahead

Speed · Innovation · Performance

PEN RACE

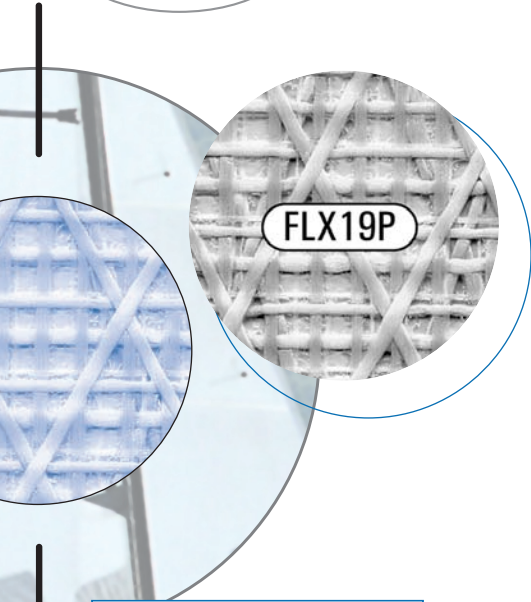


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FLEX[®] PEN RACE

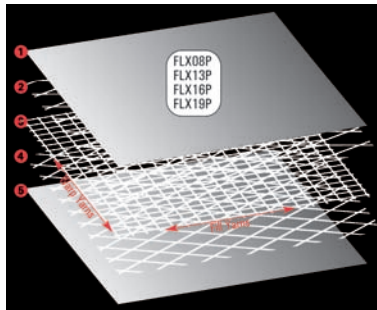
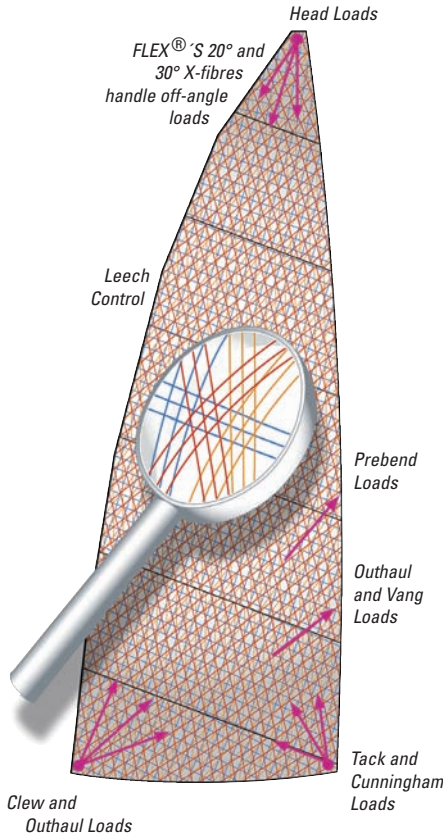
DIMENSION-POLYANT's FLEX[®] line stands for "Fill Laminate Extra X". The FLEX[®] range of fabrics is suited to racing and cruising sails. Foundations of all FLEX[®] laminate constructions are strong fill and warp yarns. Additional 20° and 30° "Double X" patterns from the fill absorb multiple load situations. Thanks to its novel construction, FLEX[®] handles strain in six different directions, resulting in unprecedented shape retention characteristics. In addition to primary loads, off-angle loads in clew, head and tack areas, mid leech and luff are catered for. FLEX[®] will also absorb those dynamic loads that occur during sailing and enables excellent shape control. FLEX[®] styles are crosscut fabrics and available with several fibre densities which can be combined in a sail in accordance with the expected load situation. FLEX[®]'s firmly locked-up fiber matrix guarantees long performance life and superior durability.





FLEX® - excellent shape control

- Multi-directional load handling – 0° Warp/90° Fill, double 20° yarns, and double 30° yarns means FLEX® handles load in six directions
- Leech stability – FLEX®'s double "X"s handle mid-leech loads of high- and low-aspect mains and genoas
- Step-up construction – Progressive weights in each FLEX® line allow step-up construction
- Tear strength – Strong, durable fill and warp yarns make FLEX® a tough, durable material
- Maximum draft position – Multi-directional yarn layout addresses stability in draft position
- Ease of construction – FLEX®'s two extra "X"s means there's no need to flip-flop panels – and a FLEX® sail has fewer panels than other cross-cut products
- Sail weight reduction – FLEX® has the ability to split weights from high-load to low-load areas



1. PET film with SPF+ UV inhibitor for low load stability and UV protection
2. 20° Yarns handle off-angle high loads: upper leech, head, tack, and clew
3. 30° Yarns handle off-angle low loads: mid-leech, prebend, boom vang
4. Fill/Warp Yarns handle primary loads, add breaking strength and durability
5. PET film with SPF+ UV inhibitor for low load stability and UV protection



sailcloth technology

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Name	Warp/Fill	X-PLY 30 degree	X-PLY 20 degree
FLX 08 P	4 x 4 1,000 P x 1,000 PEN	3 x 3 1,300 PEN	
FLX 13 P	4 x 4 1,000 P x 1,000 PEN	3 x 3 1,300 PEN	2 x 2 1,300 PEN
FLX 16 P	5 x 6 1,000 P x 1,000 PEN	3 x 3 1,300 PEN	2 x 2 1,300 PEN
FLX 19 P	5 x 7 1,000 P x 1,300 PEN	3 x 3 1,300 PEN	2 x 2 1,300 PEN
FLX 24 P	6 x 6 1,000 P x 2,000 PEN	3 x 3 1,300 PEN	2 x 2 1,300 PEN

3 x 3 1,300 is 3,900 DPI to each side or 7,800 DPI
2 x 2 1,300 is 2,600 DPI to each side or 5,200 DPI