

the Cloth, *sails are made of*

PEN RACE



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Designing the Future

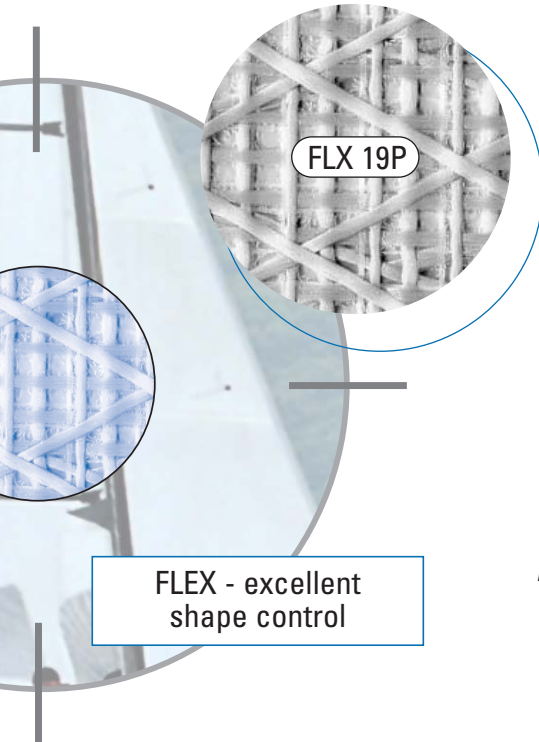
FLEX PEN RACE

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.

www.dimension-polyant.com

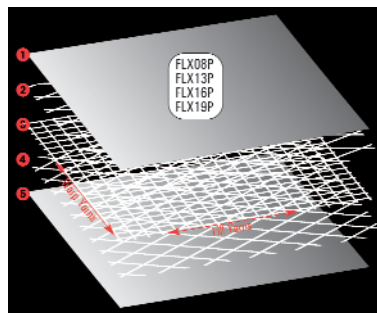
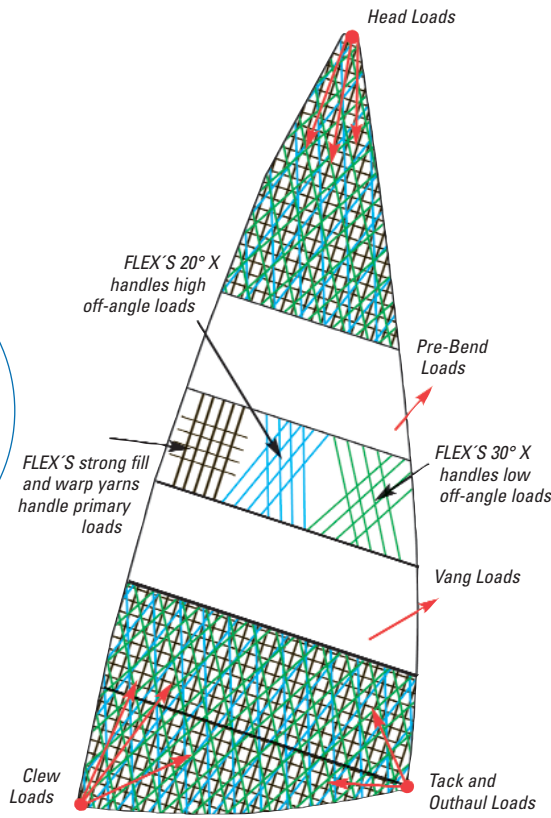


X-PLY® · DC-Line® · HydraNet® · FLEX · Wovens · D4® Membranes · HydraNet® Radial · GraphX® Carbon · DYS® Offshore · X-Tech · HTP® Plus · INSERT®



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

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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

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

