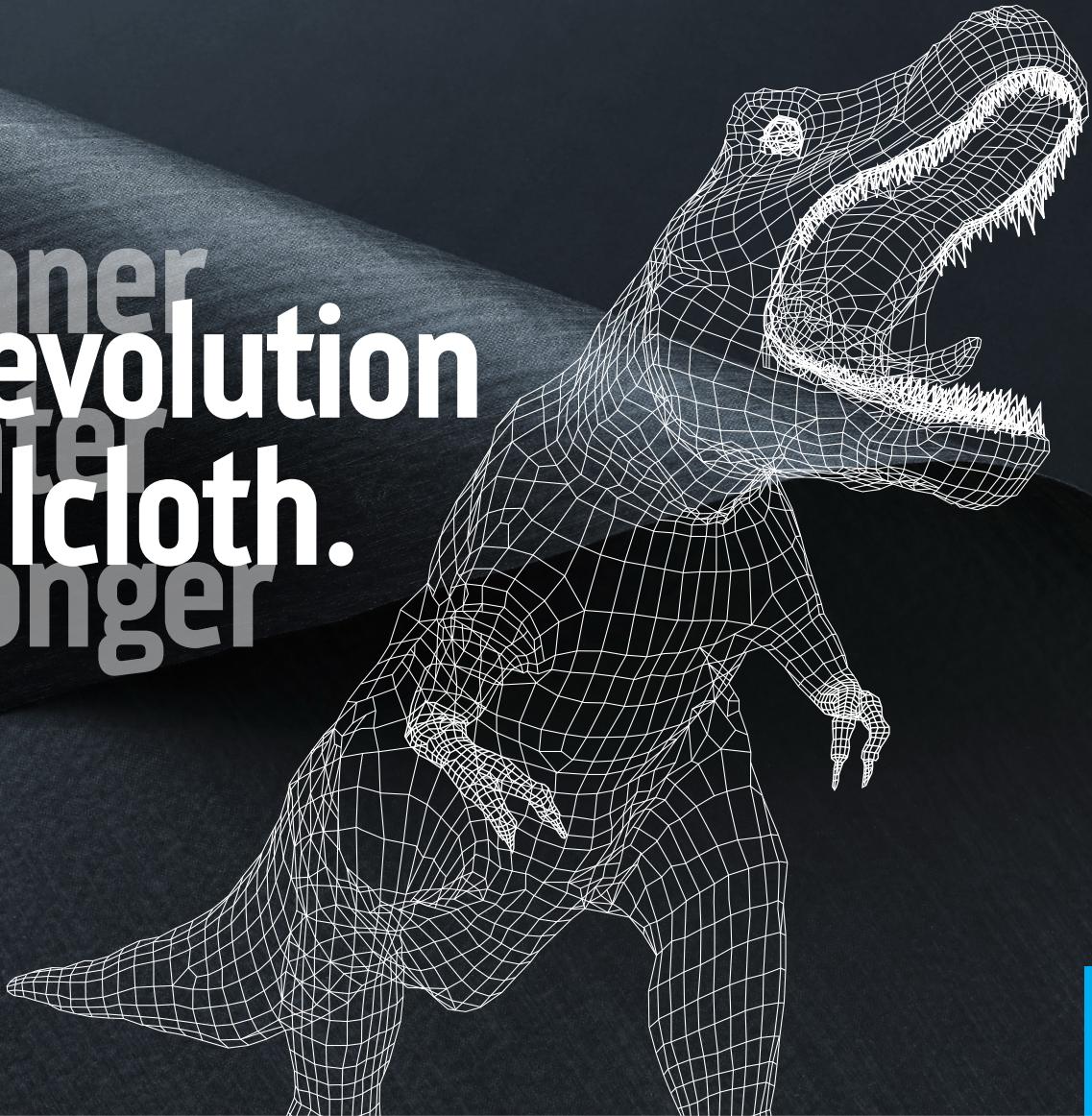


thinner Next evolution in sailcloth. lighter stronger



SICEN



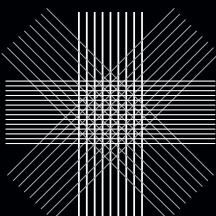
Tyra PLY® Pure PLUS
dimension-polyant

When it comes to racing, less is often more. We couldn't agree more! That's why we developed Tyra PLY® Pure PLUS, a material that delivers exactly what performance-oriented sailors need: film-free, extremely lightweight and thin, and therefore easy to handle.

At the same time, Tyra PLY® Pure PLUS impresses with outstanding profile stability and tear resistance. This is ensured by our Tyra UD® tapes made of Black Aramid and Ultra-PE filaments, which are laid out multiaxially along the main load paths, providing enormous off-angle support.

The functional surface without film is unique in this combination – and patented by Dimension-Polyant. It protects the material against abrasion and chafing damage.

With this unmatched weight-to-performance ratio, we have also succeeded in significantly improving the feel. Thinner – lighter – stronger, and now also softer!



Technical highlights

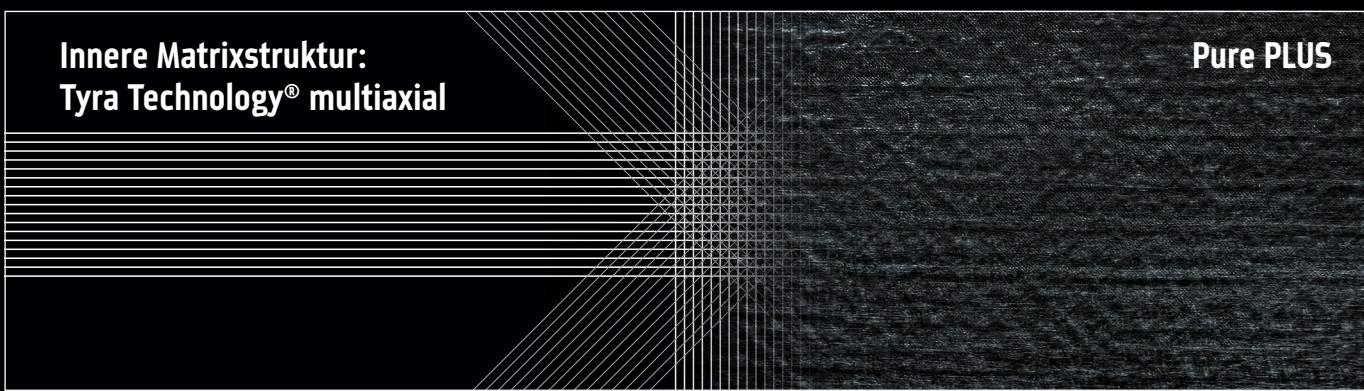
- Spread filament-based technology
- Best weight-to-modulus-ratio
- Exceptional support of off-angle loads
- Filmless & ultra-thin

The leading sailcloth manufacturer. Innovation since 1966
dimension-polyant.com

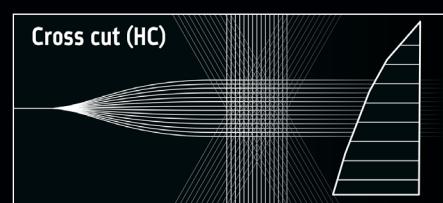
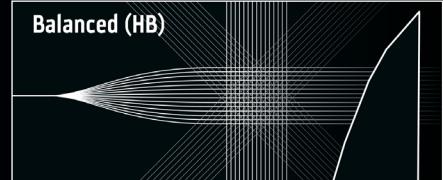
 **dimension
polyant**

Innere Matrixstruktur: Tyra Technology® multiaxial

Pure PLUS



Boat Length	Application	Balanced cut
20 - 25	Mainsail	TP05 HB
	Light #1	TP05 HB
	#1	TP05 HB
	#2	TP05 HB
	#3	TP05 HB
26 - 30	Mainsail	TP07 HB
	Light #1	TP05 HB
	#1	TP07 HB
	#2	TP07 HB
	#3	TP07 HB
31 - 35	Mainsail	TP10 HC / TP07 HB
	Light #1	TP07 HB / TP05 HB
	#1	TP07 HB
	#2	TP10 HC / TP07 HB
	#3	TP10 HC / TP07 HB
36 - 40	Mainsail	TP10 HC
	Light #1	TP07 HB
	#1	TP07 HB
	#2	TP10 HC
	#3	TP10 HC
41 - 45	Mainsail	TP15 HC / TP10 HC
	Light #1	TP10 HC / TP07 HB
	#1	TP10 HC / TP07 HB
	#2	TP15 HC / TP10 HC
	#3	TP15 HC / TP10 HC
46 - 50	Mainsail	TP15 HC
	Light #1	TP10 HC / TP07 HB
	#1	TP15 HC
	#2	TP15 HC
	#3	TP15 HC



Our application chart is just a guideline based on our experience with our material. Responsibility of final decision regarding material choice and the associated warranty involved lies with the sailmaker taking into account the respective circumstances / conditions

Tyra Technology® – From fibres to monofilament tapes to rolled goods

With our Tyra Technology®, we split fibres into individual filaments and fix them onto a unidirectional monofilament tape in a previously unattainable, homogeneous distribution. The product is our Tyra UD® Tape. This innovative filament tape forms the basis of the new Tyra range. Our world-leading production enables the processing of numerous fibre types and combinations as well as the integration of various stabilising materials such as scrims, veils and adhesives. The Tyra UD® tapes are laid on top of each other at different angles to form the inner matrix structure of Tyra PLY®. Here, we focus on the requirements of the respective application areas and produce various qualities, ranging from unidirectional (0°) to biaxial (0° and 90°) and multiaxial (0°, 90°, 83°, and off-angle support).

The use of Tyra UD® ensures unique profile stability even in demanding environmental conditions and offers significant weight savings compared to conventional laminates or membranes at the same time. Depending on the area of application, the surface also varies and ensures the durability of the material with a light, thin and strong inner matrix – we offer high-performance products for performance racers, club racers and cruisers.

