A red crown with grey text

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**Membrane Sails:**

EPEX is a patented technology and the flagship membrane technology of Elvstrøm Sails. The EPEX technology enables one workflow from design to the finished membrane, all at our loft in Denmark close to the market. The EPEX table is the most accurate in the world and the biggest of its kind. The patented application head places every single yarn precisely on the right spot while the intense vacuum holds the entire membrane in place. This ensures that any material shrinkage during the curing process is eliminated.

**Special features of EPEX**

**Vacuum**

The world’s most advanced vacuum table uses over 500.000 vacuum nozzles across the entire laminating surface. Through these nozzles we apply a constant air pressure which draws out all air bubbles, holds the blade in place and compresses the membrane layers.

**Lamination**

During the lamination process two things are crucial. First of all, to eliminate trapped air and secondly to apply a constant temperature to prevent the blade from local shrinkage. The EPEX technology meets both challenges.

Heaters & sensors ensure a constant tempera­ture across the entire blade during lamination. The extreme pressure by vacuum ensures that the air around the yarn built-up is eliminated. The result is a strong and solid membrane with no air pockets and/or crushed fibers.

**Integrated batten pockets**

On some of the materials and sail types within our EPEX range of products, the batten pockets can be integrated directly into the membrane. That leaves a 100% symmetric membrane with equal profile and performance on both tacks!

**Longevity and performance**

The EPEX membrane sails are extremely strong and endure even the most rigorous conditions for years and years to come. The shape keeps up and delivers an outstanding performance.

A graph showing different types of polyester

AI-generated content may be incorrect.

*Please note the above is a generalised comparison of lifespan and not to be taken as years.*