

# APEN PENTEX LAMINATES

Contender Sailcloth is pleased to introduce a completely new laminate using the new, break-through fiber PENTEX. Developed for the tire and mechanical rubber markets, PENTEX fiber has several features that make it well suited for sailcloth applications. As a close cousin to regular polyester (PET), fibers made from PENTEX polymer exhibit excellent resistance to flex fatigue and general toughness. They also are more resistant to UV radiation, maintaining more of their original strength for a longer time. This means added sail life in areas where the sun is strong.

APEN Styles feature 100% PENTEX constructions including warp, fill and off-angle. New wider angle PENTEX grid for smoother panel transitions and greater fabric stability. NEW Contender now offers PENTEX laminates with taffeta, for increased durability and a wider range of applications.

PENTEX fibers also provide a significant performance increase compared to even the high tenacity styles of regular polyester. PENTEX modulus is 2 1/2 times higher than PET and since modulus is a measure of a fiber's ability to resist stretching, sails made with PEN fibers will stretch less and hold their designed shape longer.

Now for the first time, sailors can enjoy increased performance in a fiber without compromising the durability of their sails. Lower stretch, better UV resistance, and great flex strength all add up to improved sail performance.

Contender has tested the APEN laminates on the water in both Europe and Australia with very successful results. Low stretch performance and excellent durability have been observed in both mainsails and genoas used during the past

## APEN Advantages:

- Zero-Zero crimp construction eliminates crimp in warp and fill
- Graduated fill count for better fabric strength and durability
- High density off angle scrim offers improved off-threadline performance
- Economical alternative to aramid fabrics



## APEN Constructions:

<b>APEN 6</b>	1000 PEN x 500 PEN (6 x 4) 35° 500 PEN
<b>APEN 12</b>	2000 PEN x 500 PEN (6 x 4) 35° 500 PEN
<b>APEN 18</b>	3000 PEN x 500 PEN (6 x 4) 35° 500 PEN
<b>APEN 24</b>	4000 PEN x 500 PEN (6 x 4) 35° 500 PEN

*For added durability, APEN constructions are also available as APEN-T Taffeta Backed and ACL-PEN Cruise Laminates.*

**Contender Sailcloth**  
[www.contenderus.com](http://www.contenderus.com)