## 9.3 High Aspect High Modulus



Challenge Sailcloth's High Modulus Weaves are high performance racing and high end cruising fabrics. They feature tight weaves of very high counts of warp yarns (high sleys), and highest modulus, highest shrink Fiber 104 or Performance Fibers 1W70 fill yarns in most weights (where available). These superior fibers (the finest that money can buy) best resist high leech loads in Crosscut Sails. High Modulus Weaves compare extremely favorably to the top constructions made by our competitors, who use little to no Fiber 104 and 1W70.

## Construction

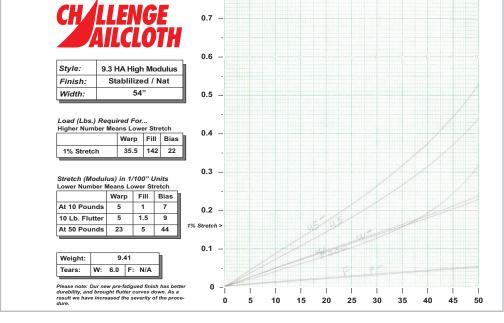
• 9.3 has a very high warp count of 250 denier and a 1000 denier Performance Fibers 1W70 fill. The high sley (number of warp yarns) makes straight "tunnels" which make the fill yarn straight. (Low "crimp") This takes the max-

imum advantage of the very high modulus or low stretch fill yarn.

- Compares very favorably to any competing
  Oz High Asp. fabric.
- Warp to fill denier ratio of 1:4: high aspect. A Super tight weave.
- Actual weight is about 9.4 Oz. per S.M. Yard.

## **Finish**

 Our STABILIZED finish is achieved by im-



mersing the fabric in a bath of suspended resin. The resin is absorbed by the fiber. The cloth is fed into an oven where the liquids are driven off, leaving resin solids bonded to fibers. The fabric is heat-set several times, methodically shrunk at high termperature, further tightening the weave, and calendered at high tonnage to further stabilize the bias.

• Available in Firm spec of 1-7, or Med. Firm 1 -12: See "Stretch in 1/100" Units", "At 10 lbs" on graph.

## **Applications**

- 9.3 is for High Asp. Mains and #3 Genoas on 42-48 footers.
- Heavy #1 Genoas on 49-55 foot boats, Medium #1's on 56-62 footers and Light #1's on 63-70 foot boats.



