

# CHALLENGE AIRCLOTH

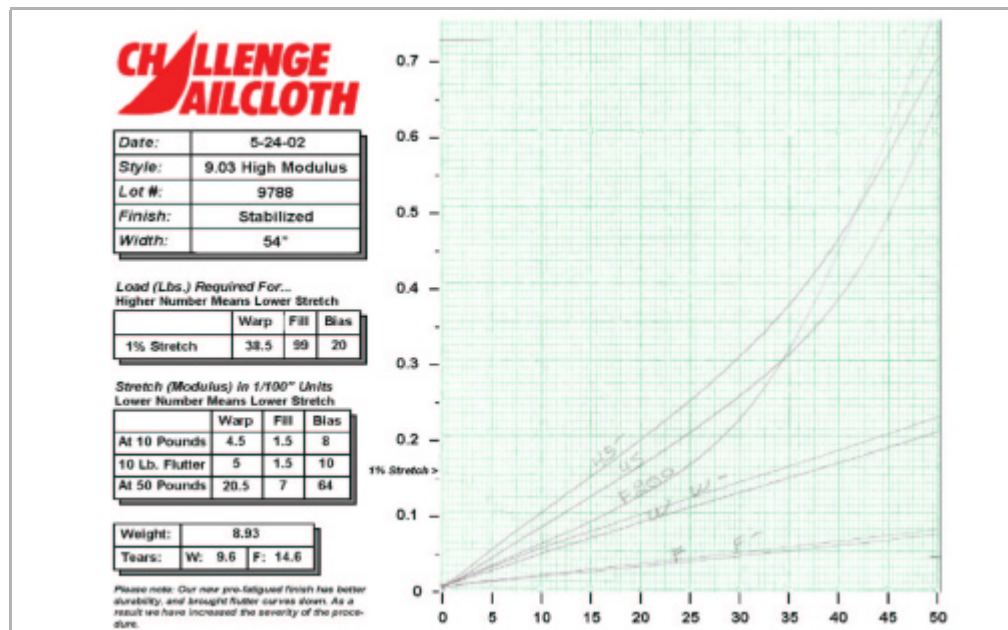
## 9.03 High Modulus



Challenge Sailcloth's High Modulus Weaves are high performance racing, and highest end cruising fabrics. They feature tight weaves of very high counts of warp yarns (high sleys), and highest modulus, highest shrink Dacron<sup>®</sup> 52 or Honeywell (AlliedSignal) 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 Dacron 52 and 1W70.

### Construction

- 9.03 has a very high warp count of 300 denier and a 700 High Tenacity Type 52 Dacron fill. The high sley (number of warp yarns) makes straight "tunnels" which make the fill yarn straight. (Low "crimp") This takes maximum advantage of the high modulus or low stretch fill yarn, best maintaining sail shape.
- Warp to fill denier ratio of 1 : 2.33: Low to Medium Aspect Ratio.
- Very fine weave construction compared to competing fabrics.
- Actual weight is 9.0 Oz. per S.M. yard.



### Finish

- Our STABILIZED finish is achieved by immersing 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 temperature, further tightening the weave, and calendered at high tonnage to further stabilize the bias.
- Available in Firm spec of 2-9, or Medium Firm 3-15: See "Stretch in 1/100" Units", "At 10 lbs" on graph.

### Applications

- 9.03 is for LA mains, #2 and 3 genoas on 40-45 foot boats.
- Hvy. #1 gen. on 49-55', Med 1's: 54-60, It # 1's 63-70 footers.

